THE RADIO AMATEURS

DX GUIDE

13th EDITION

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Compass Rose

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DX GUIDE

The DX GUIDE contains information not easily obtained elsewhere and is intended as an aid and quick reference for all radio amateurs interested in DX.

Editor

Herbert J. Nelson

Publishers of
Radio Amateur CALLBOOK Magazine
Foreign Radio Amateur CALLBOOK Magazine
Radio Amateurs PREFIX MAP of the WORLD
Radio Amateurs GREAT CIRCLE CHART of the WORLD
Radio Amateurs MAP of NORTH AMERICA
Radio Amateurs WORLD ATLAS
Radio Amateurs DX GUIDE

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TABLE OF ALLOCATION OF INTERNATIONAL CALL SIGN SERIES

As issued by the International Telecommunication Union

AAA-ALZ	UNITED STATES OF AMERICA
AMA-AOZ	SPAIN
APA-ASZ	PAKISTAN
ATA-AWZ	INDIA
AXA-AXZ	AUSTRALIA
AYA-AZZ	ARGENTINA
BAA-BZZ	CHINA
CAA-CEZ	CHILE
CFA-CKZ	CANADA
CLA-CMZ	CUBA
CNA-CNZ	MOROCCO
COA-COZ	CUBA
CPA-CPZ	BOLIVIA
CQA-CRZ	PORTUGAL
CSA-CUZ	PORTUGAL
CVA-CXZ	URUGUAY
CYA-CZZ	CANADA
DAA-DTZ	GERMANY
DUA-DZZ	PHILIPPINES
EAA-EHZ	SPAIN
EIA-EJZ	IRELAND
EKA-EKZ	UNION OF SOVIET SOCIALIST REP.
ELA-ELZ	LIBERIA
EMA-EOZ	UNION OF SOVIET SOCIALIST REP.
EPA-EQZ	IRAN
ERA-ERZ	UNION OF SOVIET SOCIALIST REP.
ESA-ESZ	ESTONIA
ETA-ETZ	ETHIOPIA
EUA-EWZ	BYELORUSSIAN SSR
EXA-EZZ	UNION OF SOVIET SOCIALIST REP.
FAA-FZZ	FRANCE
GAA-GZZ	GREAT BRITAIN & NO IRELAND
HAA-HAZ	HUNGARY
HBA-HBZ	SWITZERLAND
HCA-HDZ	ECUADOR
HEA-HEZ	SWITZERLAND
HFA-HFZ	POLAND
HGA-HGZ	HUNGARY
HHA-HHZ	HAITI
HIA-HIZ	DOMINICAN REPUBLIC
HJA-HKZ	COLOMBIA
HLA-HMZ	KOREA
HNA-HNZ	IRAQ
HOA-HPZ	PANAMA
HQA-HRZ	HONDURAS
HSA-HSZ	THAILAND
HTA-HTZ	NICARAGUA
HUA-HUZ	EL SALVADOR
HVA-HVZ	VATICAN CITY STATE
HWA-HYZ	FRANCE
HZA-HZZ	SAUDI ARABIA
IAA-IZZ	ITALY
JAA-JSZ	JAPAN
JTA-JVZ	MONGOLIA
JWA-JXZ	NORWAY
JYA-JYZ	JORDAN
JZA-JZZ	INDONESIA
KAA-KZZ	UNITED STATES OF AMERICA
LAA-LNZ	NORWAY
LOA-LWZ	ARGENTINA
LXA-LXZ	LUXEMBOURG
LYA-LYZ	LITHUANIA
LZA-LZZ	BULGARIA
MAA-MZZ	GREAT BRITAIN & NO IRELAND
NAA-NZZ	UNITED STATES OF AMERICA
OAA-OCZ	PERU
ODA-ODZ	LEBANON
OEA-OEZ	AUSTRIA
OFA-OJZ	FINLAND
OKA-OMZ	CZECHOSLOVAKIA
ONA-OTZ	BELGIUM
OUA-OZZ	DENMARK
PAA-PIZ	NETHERLANDS
PJA-PJZ	NETHERLANDS ANTILLES
PKA-POZ	INDONESIA
PPA-PYZ	BRAZIL
PZA-PZZ	SURINAM
QAA-QZZ	SERVICE ABBREVIATIONS
RAA-RZZ	UNION OF SOVIET SOCIALIST REP.
SAA-SMZ	SWEDEN
SNA-SRZ	POLAND
SSA-SSM	EGYPT
SSN-STZ	SUDAN
SUA-SUZ	EGYPT
SVA-SZZ	GREECE
TAA-TCZ	TURKEY
TDA-TDZ	GUATEMALA
TEA-TEZ	COSTA RICA
TFA-TFZ	ICELAND
TGA-TGZ	GUATEMALA
THA-THZ	FRANCE
TIA-TIZ	COSTA RICA
TJA-TJZ	CAMEROON
TKA-TKZ	FRANCE
TLA-TLZ	CENTRAL AFRICAN REPUBLIC
TMA-TMZ	FRANCE
TNA-TNZ	CONGO
TOA-TQZ	FRANCE
TRA-TRZ	GABON
TSA-TSZ	TUNISIA
TTA-TTZ	CHAD
TUA-TUZ	IVORY COAST
TVA-TXZ	FRANCE
TYA-TYZ	BENIN
TZA-TZZ	MALI
UAA-UQZ	UNION OF SOVIET SOCIALIST REP.
URA-UTZ	UKRAINIAN SOVIET SOCIALIST REP.
UUA-UZZ	UNION OF SOVIET SOCIALIST REP.
VAA-VGZ	CANADA
VHA-VNZ	AUSTRALIA
VOA-VOZ	CANADA
VPA-VSZ	GREAT BRITAIN & NO IRELAND
VTA-VWZ	INDIA
VXA-VYZ	CANADA
VZA-VZZ	AUSTRALIA
WAA-WZZ	UNITED STATES OF AMERICA
XAA-XIZ	MEXICO
XJA-XOZ	CANADA
XPA-XPZ	DENMARK
XQA-XRZ	CHILE
XSA-XSZ	CHINA
XTA-XTZ	UPPER VOLTA
XUA-XUZ	CAMBODIA
XVA-XVZ	VIET NAM
XWA-XWZ	LAOS
XXA-XXZ	PORTUGUESE OVERSEAS PROVINCES
XYA-XZZ	BURMA
YAA-YAZ	AFGHANISTAN
YBA-YHZ	INDONESIA
YIA-YIZ	IRAQ
YJA-YJZ	NEW HEBRIDES
YKA-YKZ	SYRIA
YLA-YLZ	LATVIA
YMA-YMZ	TURKEY
YNA-YNZ	NICARAGUA
YOA-YRZ	ROMANIA
YSA-YSZ	EL SALVADOR
YTA-YUZ	YUGOSLAVIA
YVA-YYZ	VENEZUELA
YZA-YZZ	YUGOSLAVIA
ZAA-ZAZ	ALBANIA
ZBA-ZJZ	GREAT BRITAIN & NO IRELAND
ZKA-ZMZ	NEW ZEALAND
ZNA-ZOZ	GREAT BRITAIN & NO IRELAND
ZPA-ZPZ	PARAGUAY
ZQA-ZQZ	GREAT BRITAIN & NO IRELAND
ZRA-ZUZ	SOUTH AFRICA - SW AFRICA
ZVA-ZZZ	BRAZIL
2AA-2ZZ	GREAT BRITAIN & NO IRELAND
3AA-3AZ	MONACO
3BA-3BZ	MAURITIUS
3CA-3CZ	EQUATORIAL GUINEA
3DA-3DM	SWAZILAND
3DN-3DZ	FIJI
3EA-3FZ	PANAMA
3GA-3GZ	CHILE
3HA-3UZ	CHINA
3VA-3VZ	TUNISIA
3WA-3WZ	VIET NAM
3XA-3XZ	GUINEA
3YA-3YZ	NORWAY
3ZA-3ZZ	POLAND
4AA-4CZ	MEXICO
4DA-4IZ	PHILIPPINES
4JA-4LZ	UNION OF SOVIET SOCIALIST REP.
4MA-4MZ	VENEZUELA
4NA-4OZ	YUGOSLAVIA
4PA-4SZ	CEYLON
4TA-4TZ	PERU
4UA-4UZ	UNITED NATIONS
4VA-4VZ	HAITI
4WA-4WZ	YEMEN
4XA-4XZ	ISRAEL
4YA-4YZ	INTL CIV AVIATION ORGANIZATION
4ZA-4ZZ	ISRAEL
5AA-5AZ	LIBYA
5BA-5BZ	CYPRUS
5CA-5GZ	MOROCCO
5HA-5IZ	TANZANIA
5JA-5KZ	COLOMBIA
5LA-5MZ	LIBERIA
5NA-5OZ	NIGERIA
5PA-5QZ	DENMARK
5RA-5SZ	MADAGASCAR
5TA-5TZ	MAURITANIA
5UA-5UZ	NIGER
5VA-5VZ	TOGO
5WA-5WZ	WESTERN SAMOA
5XA-5XZ	UGANDA
5YA-5ZZ	KENYA
6AA-6BZ	EGYPT
6CA-6CZ	SYRIA
6DA-6JZ	MEXICO
6KA-6NZ	KOREA
6OA-6OZ	SOMALI
6PA-6SZ	PAKISTAN
6TA-6UZ	SUDAN
6VA-6WZ	SENEGAL
6XA-6XZ	MADAGASCAR
6YA-6YZ	JAMAICA
6ZA-6ZZ	LIBERIA
7AA-7IZ	INDONESIA
7JA-7NZ	JAPAN
7OA-7OZ	YEMEN
7PA-7PZ	LESOTHO
7QA-7QZ	MALAWI
7RA-7RZ	ALGERIA
7SA-7SZ	SWEDEN
7TA-7YZ	ALGERIA
7ZA-7ZZ	SAUDI ARABIA
8AA-8IZ	INDONESIA
8JA-8NZ	JAPAN
8OA-8OZ	BOTSWANA
8PA-8PZ	BARBADOS
8QA-8QZ	MALDIVE IS
8RA-8RZ	GUYANA
8SA-8SZ	SWEDEN
8TA-8YZ	INDIA
8ZA-8ZZ	SAUDI ARABIA
9AA-9AZ	SAN MARINO
9BA-9DZ	IRAN
9EA-9FZ	ETHIOPIA
9GA-9GZ	GHANA
9HA-9HZ	MALTA
9IA-9JZ	ZAMBIA
9KA-9KZ	KUWAIT
9LA-9LZ	SIERRA LEONE
9MA-9MZ	MALAYSIA
9NA-9NZ	NEPAL
9OA-9TZ	ZAIRE
9UA-9UZ	BURUNDI
9VA-9VZ	SINGAPORE
9WA-9WZ	MALAYSIA
9XA-9XZ	RWANDA
9YA-9ZZ	TRINIDAD AND TOBAGO
A2A-A2Z	BOTSWANA
A3A-A3Z	TONGA
A4A-A4Z	OMAN
A5A-A5Z	BHUTAN
A6A-A6Z	UNITED ARAB EMIRATES
A7A-A7Z	QATAR
A8A-A8Z	LIBERIA
A9A-A9Z	BAHRAIN
C2A-C2Z	NAURU
C3A-C3Z	ANDORRA
C4A-C4Z	CYPRUS
C5A-C5Z	GAMBIA
C6A-C6Z	BAHAMAS
C7A-C7Z	WORLD METEOROLOGICAL ORGANIZATION
C8A-C9Z	MOZAMBIQUE
D2A-D3Z	ANGOLA
D4A-D4Z	CAPE VERDE
D5A-D5Z	LIBERIA
D6A-D6Z	COMOROS
D7A-D9Z	KOREA
H3A-H3Z	PANAMA
H4A-H4Z	SOLOMON IS
H5A-H5Z	BOPHUTHATSWANA
J3A-J3Z	GRENADA
L2A-L9Z	ARGENTINA
P2A-P2Z	PAPUA NEW GUINEA
P3A-P3Z	CYPRUS
P4A-P4Z	NETHERLANDS ANTILLES
P5A-P9Z	KOREA
S2A-S3Z	BANGLADESH
S6A-S6Z	SINGAPORE
S7A-S7Z	SEYCHELLES
S8A-S8Z	TRANSKEI
S9A-S9Z	SAO TOME & PRINCIPE

INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in locating the country when DX calls are heard.

AP.....PAKISTAN
A2C.....BOTSWANA
A35.....TONGA
A4X.....SULTANATE OF OMAN
A51.....BHUTAN
A6X.....UNITED ARAB EMIRATES
A7X.....QATAR
A9X.....BAHRAIN

BV.....TAIWAN
BY.....PEOPLES REPUBLIC OF CHINA

CE.....CHILE
CE9AA-AM.....CHILEAN ANTARCTICA
TIERRA DE O*HIGGINS,PALMER PENINSULA,
GRAHAM LAND
CE9AN-AZ.....SOUTH SHETLAND IS.
CEØA.....EASTER IS.
CEØX.....SAN FELIX IS.
CEØZ.....JUAN FERNANDEZ IS.
CM.....CUBA
CN.....MOROCCO
CO.....CUBA
CP.....BOLIVIA
CR3.....GUINEA BISSAU
CR9.....MACAO
CT1.....PORTUGAL
CT2.....AZORES IS.
CT3.....MADEIRA IS.
CX.....URUGUAY
C21.....REPUBLIC OF NAURU
C31.....ANDORRA
C5A.....GAMBIA
C6A.....BAHAMA IS.
C9M.....MOZAMBIQUE

DA-DL.....FED REP OF WEST GERMANY
DM.....EAST GERMAN DEMOCRATIC REP.
DU.....PHILIPPINES
D2A.....ANGOLA
D4.....REP OF CAPE VERDE
D6.....STATE OF COMORO

EA.....SPAIN
EA6.....BALEARIC IS.
EA8.....CANARY IS.
EA9.....SPANISH SAHARA,CEUTA Y MELILLA
EI.....IRELAND
EL,5L.....LIBERIA
EP.....IRAN
ET3.....ETHIOPIA

F.....FRANCE
FB8W.....CROZET IS.
FB8X.....KERGUELEN IS.
FB8Y.....ANTARCTICA
FB8Z.....AMSTERDAM & ST.PAUL IS.
FC.....CORSICA
FG7.....GUADELOUPE
FH8.....MAYOTTE
FK8.....NEW CALEDONIA
FM7.....MARTINIQUE
FO8.....FRENCH POLYNESIA,CLIPPERTON IS.
FP8.....ST.PIERRE & MIQUELON IS.
FR7.....GLORIOSO,JUAN DE NOVA,REUNION,
TROMELIN IS.
FS7.....ST. MARTIN IS.
FW8.....WALLIS & FUTUNA IS.
FY7.....FRENCH GUIANA

G.....ENGLAND
GD.....ISLE OF MAN
GI.....NORTHERN IRELAND
GJ.....JERSEY
GM.....SCOTLAND
GU.....BAILIWICK OF GUERNSEY
GW.....WALES

HA,HG.....HUNGARY
HB.....SWITZERLAND
HBØ.....LIECHTENSTEIN
HC.....ECUADOR
HC8.....GALAPAGOS IS.
HG.....HUNGARY
HH.....HAITI
HI.....DOMINICAN REPUBLIC
HK.....COLOMBIA
HKØ.....BAJO NUEVO,MALPELO,SAN ANDRES &
PROVIDENCIA IS.
HKØ.....SERRANA BANK & RONCADOR CAY
HM,HL9.....KOREA
HP.....PANAMA
HR.....HONDURAS
HRØ.....SWAN IS.
HS.....THAILAND
HV.....VATICAN CITY
HZ,7Z.....SAUDI ARABIA
H4.....SOLOMON IS.

I, IW.....ITALY
IA.....TUSCAN ARCHIPELAGO
IC.....CAPRI & ISCHIA IS.
IG9.....LAMPEDUSA IS.
IH.....PANTELLERIA IS.
IM.....MADDALENA IS.
IS.....SARDINIA
IT.....SICILY

JA,JE-JJ,JR.....JAPAN
JD1.....OGASAWARA,MINAMI-TORI-SHIMA IS.
JR6.....OKINAWA (RYUKYU IS.)
JT1.....MONGOLIA
JW.....SVALBARD IS.
JX.....JAN MAYEN IS.
JY.....JORDAN
J2.....REP OF DJIBOUTI
J3.....GRENADA & DEPENDENCIES

K.....UNITED STATES OF AMERICA
KA.....U.S.PERSONNEL IN JAPAN
KB6.....BAKER,CANTON,ENDERBURY,
HOWLAND & PHOENIX IS.
KC4.....NAVASSA IS.
KC4AA,KC4US.....ANTARCTICA
KC6.....CAROLINE IS.
KG4.....GUANTANAMO BAY
KG6.....MARIANA IS.
KG6.....GUAM
KG6R.....ROTA
KG6S.....SAIPAN
KH6.....HAWAII & KURE IS.
KJ6.....JOHNSTON IS.
KL7.....ALASKA
KM6.....MIDWAY IS.
KP4.....PUERTO RICO
KP6.....JARVIS & PALMYRA IS.
KS6.....AMERICAN SAMOA
KV4.....VIRGIN IS.
KW6.....WAKE IS.
KX6.....MARSHALL IS.
KZ5.....CANAL ZONE

LA-LJ.....NORWAY
LU.....ARGENTINA
LU-Z.....ANTARCTICA
LX.....LUXEMBOURG
LZ.....BULGARIA

M1.....SAN MARINO

N.....UNITED STATES OF AMERICA

OA.....PERU
OD5.....LEBANON
OE.....AUSTRIA
OH.....FINLAND
OHØ.....ALAND IS.
OJØ, OHØM.....MARKET REEF
OK,OL.....CZECHOSLOVAKIA
ON.....BELGIUM
OR.....ANTARCTICA
OX.....GREENLAND
OY.....FAEROES IS.
OZ.....DENMARK

PA-PI.....NETHERLANDS
PJ.....NETHERLANDS ANTILLES
PJ2,9.....CURACAO
PJ3,9.....ARUBA
PJ4,9.....BONAIRE
PJ5,8.....ST. EUSTATIUS
PJ6,8.....SABA IS.
PJ7,8.....SINT MAARTEN
PP-PY.....BRAZIL
PYØ.....FERNANDO DE NORONHA IS.
PYØ.....ST.PETER & ST.PAUL'S ROCKS
PYØ.....TRINIDADE & MARTIM VAZ IS.
PZ.....SURINAM
P29.....PAPUA NEW GUINEA

SJ-SM.....SWEDEN
SP.....POLAND
ST.....SUDAN
SU.....EGYPT
SV.....CRETE,GREECE
SV5.....DODECANESE IS.
S2,S3.....BANGLADESH
S7.....SEYCHELLES IS
S8.....TRANSKEI
S9.....SAO TOME & PRINCIPE IS.

TA,TC.....TURKEY
TF.....ICELAND
TG.....GUATEMALA
TI.....COSTA RICA
TI9.....COCOS IS.
TJ.....CAMEROON
TL8.....CENTRAL AFRICAN REPUBLIC
TN8.....REPUBLIC OF CONGO
TR8.....GABON REPUBLIC
TT8.....REPUBLIC OF CHAD
TU2.....IVORY COAST
TY.....PEOPLES REPUBLIC OF BENIN
TZ.....MALI REPUBLIC

UA1,2,3,4,6.....EUROPEAN RUSSIAN
SOVIET FEDERATED SOCIALIST REPUBLIC
UA9,Ø.....ASIATIC RUSSIAN S.F.S.R.
UA1.....FRANZ JOSEF LAND
UA2.....KALININGRADSK
UB5.....UKRAINIAN S.S.R.
UC2.....WHITE RUSSIAN S.S.R.
UD6.....AZERBAIDZHAN S.S.R.
UF6.....GEORGIAN S.S.R.
UG6.....ARMENIAN S.S.R.
UH8.....TURKMEN S.S.R.
UI8.....UZBEK S.S.R.
UJ8.....TADZHIK S.S.R.
UL7.....KAZAKH S.S.R.
UM8.....KIRGHIZ S.S.R.
UN1.....KARELO-FINNISH S.S.R.
UO5.....MOLDAVIAN S.S.R.
UP2.....LITHUANIAN S.S.R.
UQ2.....LATVIAN S.S.R.
UR2.....ESTONIAN S.S.R.

VE.....CANADA
VK.....AUSTRALIA
VK2.....LORD HOWE IS
VK9N.....NORFOLK IS
VK9X.....CHRISTMAS IS
VK9Y.....COCOS IS
VK9Z.....WILLIS IS
VKØ.....ANTARCTICA
VO1.....NEWFOUNDLAND
VO2.....LABRADOR
VP1.....BELIZE
VP2.....LEEWARD & WINDWARD IS.
VP2A.....ANTIGUA,BARBUDA
VP2D.....DOMINICA
VP2E.....ANGUILLA
VP2K.....ST KITTS,NEVIS
VP2L.....ST LUCIA
VP2M.....MONTSERRAT
VP2S.....ST VINCENT & DEPENDENCIES
VP2V.....BRITISH VIRGIN IS
VP5.....TURKS & CAICOS IS.
VP8.....FALKLAND,S.GEORGIA,S.ORKNEY,
S.SANDWICH,S.SHETLAND IS.,GRAHAM LAND
VP9.....BERMUDA IS.
VQ9.....CHAGOS
VR1.....BRITISH PHOENIX,GILBERT & OCEAN IS.
VR3.....NORTHERN LINE IS.
VR6.....PITCAIRN IS.
VR7.....CENTRAL & SOUTHERN LINE IS.
VR8.....TUVALU IS.
VS5.....BRUNEI
VS6.....HONG KONG
VU2.....INDIA
VU7.....ANDAMAN & NICOBAR IS.
VU7.....LACCADIVE IS.

W.....UNITED STATES OF AMERICA

XE,XF.....MEXICO
XF4.....REVILLA GIGEDO IS.
XT2.....VOLTAIC REPUBLIC
XU.....CAMBODIA/KHMER REPUBLIC
XV5.....VIETNAM
XW8.....LAOS
XZ.....BURMA

YA.....AFGHANISTAN
YB-YD.....INDONESIA,TIMOR IS
YI.....IRAQ
YJ.....NEW HEBRIDES
YK.....SYRIA
YN.....NICARAGUA
YO.....ROMANIA
YS.....EL SALVADOR
YU.....YUGOSLAVIA
YV.....VENEZUELA
YVØ.....AVES IS.

ZA.....ALBANIA
ZB2.....GIBRALTAR
ZD7.....SAINT HELENA IS.
ZD8.....ASCENSION IS.
ZD9.....TRISTAN DA CUNHA & GOUGH IS.
ZE.....RHODESIA
ZF1.....CAYMAN IS.
ZK1.....COOK & MANIHIKI IS.
ZK2.....NIUE IS.
ZL.....NEW ZEALAND &
AUCKLAND,CAMPBELL,CHATHAM,KERMADEC IS.
ZL5.....ANTARCTICA
ZM7.....TOKELAU IS.
ZP.....PARAGUAY
ZR,ZS1,2,4,5,6.....REPUBLIC OF SOUTH AFRICA
ZS1ANT.....ANTARCTICA
ZS2.....PRINCE EDWARD & MARION IS.
ZR,ZS3.....SOUTHWEST AFRICA (NAMIBIA)

3A.....MONACO
3B6.....AGALEGA IS.
3B7.....ST. BRANDON IS.
3B8.....MAURITIUS IS.
3B9.....RODRIGUEZ IS.
3C.....EQUATORIAL GUINEA
3D2.....FIJI IS.
3D6.....SWAZILAND
3V8.....TUNISIA
3X.....REPUBLIC OF GUINEA
3Y.....BOUVET IS.

4K1.....ANTARCTICA
4S7.....SRI LANKA
4U.....UNITED NATIONS,GENEVA
4W.....YEMEN
4X4,4Z4.....ISRAEL

5A.....LIBYAN ARAB REPUBLIC
5B4,ZC4.....CYPRUS
5H1.....ZANZIBAR,TANZANIA
5H3.....TANZANIA
5L.....LIBERIA
5N2.....NIGERIA
5R8.....MALAGASY REPUBLIC
5T5.....MAURITANIA
5U7.....NIGER
5V.....TOGO
5W1.....WESTERN SAMOA
5X5.....UGANDA
5Z4.....KENYA

6O.....SOMALI REPUBLIC
6W8.....SENEGAL REPUBLIC
6Y5.....JAMAICA

7J.....OKINO-TORI-SHIMA
7O.....SOUTH YEMEN & KAMARAN IS
7P8.....LESOTHO
7Q7.....MALAWI
7X.....ALGERIA
7Z.....SAUDI ARABIA

8J.....ANTARCTICA
8P6.....BARBADOS IS.
8Q6.....MALDIVE IS.
8R.....GUYANA
8Z4.....SAUDI ARABIA/IRAQ NEUTRAL ZONE

9G1.....GHANA
9H1,5.....MALTA
9H4.....GOZO (MALTA)
9I,9J.....ZAMBIA
9K2.....KUWAIT
9L1.....SIERRA LEONE
9M2.....WEST MALAYSIA
9M6.....SABAH
9M8.....SARAWAK
9N1.....NEPAL
9Q5.....REPUBLIC OF ZAIRE
9U5.....BURUNDI
9V1.....REPUBLIC OF SINGAPORE
9X.....RWANDA
9Y4.....TRINIDAD & TOBAGO IS.

PREFIXES—BY COUNTRIES

The following countries listed in alphabetical order by country show international radio amateur prefixes. Characters in ( ) designate the continent and zone in which the country is located. Abbreviations are as follows: A—Asia, AF—Africa, E—Europe, NA—North America, O—Oceania, SA—South America.

AFGHANISTAN (A-21) YA
AGALEGA IS (AF-39) 3B6
ALAND IS (E-15) OHØ
ALASKA (NA-1) KL7
ALBANIA (E-15) ZA
ALGERIA (AF-33) 7X
AMSTERDAM & ST.PAUL IS (AF-39) FB8Z
ANDAMAN & NICOBAR IS (A-26) VU7
ANDORRA (E-14) C31
ANGOLA (AF-36) D2A
ANTARCTICA CE9AA-AM,FB8Y,KC4,LU-Z,
UA1,VKØ,VP8,ZL5,ZS1ANT,3Y,4K1,8J
ARGENTINA (SA-13) LU
ARUBA (SA-9) PJ3,9
ASCENSION IS (AF-36) ZD8
AUCKLAND & CAMPBELL IS (O-32) ZL
AUSTRALIA (O-29 & 30) VK
AUSTRIA (E-15) OE
AVES IS (NA-8) YVØ
AZORES IS (E-14) CT2

BAHAMA IS (NA-8) C6A
BAHRAIN IS (A-21) A9X
BAJO NUEVO IS (NA-8) HKØ
BAKER IS (O-31) KB6
BALEARIC IS (E-14) EA6
BANGLADESH (A-22) S2,S3
BARBADOS IS (NA-8) 8P6
BELGIUM (E-14) ON
BELIZE (NA-7) VP1
BENIN,PEOPLE'S REP OF (AF-35) TY
BERMUDA IS (NA-5) VP9
BHUTAN (A-22) A51
BOLIVIA (SA-10) CP
BONAIRE (SA-9) PJ4,9
BOTSWANA (AF-38) A2C
BOUVET IS (AF-38) 3Y
BRAZIL (SA-11) PP-PY
BRITISH PHOENIX IS (O-31) VR1
BRUNEI (O-28) VS5
BULGARIA (E-20) LZ
BURMA (A-26) XZ
BURUNDI (AF-36) 9U5

CAMBODIA/KHMER REP (A-26) XU
CAMEROON (AF-36) TJ
CANADA (NA-1 TO 5) VE
CANAL ZONE (NA-7) KZ5
CANARY IS (AF-33) EA8
CANTON IS (O-31) KB6
CAPE VERDE, REP OF (AF-35) D4
CAPRI IS (E-15) IC
CAROLINE IS (O-27) KC6
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CHAD REPUBLIC (AF-36) TT8
CHAGOS IS (AF-39) VQ9
CHATHAM IS (O-32) ZL
CHILE (SA-12) CE
CHINA, PEOPLES REP OF (A-23 & 24) BY
CHRISTMAS IS (O-29) VK9X
CLIPPERTON IS (NA-7) FO8
COCOS IS (NA-7) TI9
COCOS (KEELING) IS (O-29) VK9Y
COLOMBIA (SA-9) HK
COMORO,STATE OF (AF-39) D6
CONGO, REPUBLIC OF (AF-36) TN8
COOK IS (O-32) ZK1
CORSICA (E-15) FC
COSTA RICA (NA-7) TI
CRETE, GREECE (E-20) SV
CROZET IS (AF-39) FB8W
CUBA (NA-8) CM,CO
CURACAO (SA-9) PJ2,9
CYPRUS (A-20) 5B4,ZC4
CZECHOSLOVAKIA (E-15) OK,OL

DENMARK (E-14) OZ
DJIBOUTI,REP OF (AF-37) J2
DODECANESE IS (E-20) SV5
DOMINICAN REPUBLIC (NA-8) HI

EASTER IS (SA-12) CEØA
ECUADOR (SA-10) HC
EGYPT (AF-34) SU
EL SALVADOR (NA-7) YS
ENDERBURY IS (O-31) KB6
ENGLAND (E-14) G
ETHIOPIA (AF-37) ET3

FAEROES IS (E-14) OY
FALKLAND IS (SA-13) VP8
FERNANDO DE NORONHA (SA-11) PYØ
FIJI IS (O-32) 3D2
FINLAND (E-15) OH
FRANCE (E-14) F
FRENCH POLYNESIA (O-31 & 32) FO8

GABON REPUBLIC (AF-36) TR8
GALAPAGOS IS (SA-10) HC8
GAMBIA (AF-35) C5A
GERMANY-FED.REP. (WEST) (E-14) DA-DL
GERMAN DEM.REP. EAST (E-14) DM
GHANA (AF-35) 9G1
GIBRALTAR (E-14) ZB2
GILBERT & OCEAN IS (O-31) VR1
GLORIOSO IS (AF-39) FR7
GOUGH IS (AF-38) ZD9
GOZO (MALTA) (E-15) 9H4
GRAHAM LAND (SA-13) VP8,LU-Z
GREECE (E-20) SV
GREENLAND (NA-40) OX
GRENADA (NA-8) J3
GUADELOUPE (NA-8) FG7
GUAM IS (O-27) KG6
GUANTANAMO BAY (NA-8) KG4
GUATEMALA (NA-7) TG
GUERNSEY,BAILIWICK OF (E-14) GU
GUIANA, FRENCH (SA-9) FY7
GUINEA BISSAU (AF-35) CR3
GUINEA, EQUATORIAL (AF-36) 3C
GUINEA, REPUBLIC OF (AF-35) 3X
GUYANA (SA-9) 8R

HAITI (NA-8) HH
HAWAII (O-31) KH6
HEARD IS (AF-39) VKØ
HONDURAS (NA-7) HR
HONG KONG (A-24) VS6
HOWLAND IS (O-31) KB6
HUNGARY (E-15) HA,HG

ICELAND (E-40) TF
INDIA (A-22) VU2
INDONESIA (O-28) YB-YD
IRAN (A-21) EP
IRAQ (A-21) YI
IRELAND (E-14) EI
ISCHIA (E-15) IC
ISLE OF MAN (E-14) GD
ISRAEL (A-20) 4X4,4Z4
ITALY (E-15) I,IM
IVORY COAST (AF-35) TU2

JAMAICA (NA-8) 6Y5
JAN MAYEN IS (E-40) JX
JAPAN (A-25) JA-JR
JAPAN,U.S.PERSONNEL IN (A-25) KA
JARVIS IS (O-31) KP6
JERSEY (E-14) GJ
JOHNSTON IS (O-31) KJ6
JORDAN (A-20) JY
JUAN DE NOVA IS (AF-39) FR7
JUAN FERNANDEZ IS (SA-12) CEØZ

KAMARAN IS (A-21) 7O
KENYA (AF-37) 5Z4
KERGUELEN IS (AF-39) FB8X
KERMADEC IS (O-32) ZL
KOREA (A-25) HM,HL9
KURE IS (O-31) KH6
KUWAIT (A-21) 9K2

LABRADOR (NA-2) VO2
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LAMPEDUSA IS (AF-33) IG9
LAOS (A-26) XW8
LEBANON (A-20) OD5
LEEWARD IS.
ANGUILLA (NA-8) VP2E
ANTIGUA, BARBUDA (NA-8) VP2A
BRITISH VIRGIN IS (NA-8) VP2V
MONTSERRAT (NA-8) VP2M
ST. KITTS, NEVIS (NA-8) VP2K
LESOTHO (AF-38) 7P8
LIBERIA (AF-35) EL,5L
LIBYAN ARAB REPUBLIC (AF-34) 5A
LIECHTENSTEIN (E-14) HBØ
LINE IS, NORTHERN (O-31) VR3
LINE IS,CENTRAL & SOUTHERN (O-31) VR7
LORD HOWE IS (O-30) VK2
LUXEMBOURG (E-14) LX

MACAO (A-24) CR9
MACQUARIE IS (O-30) VKØ
MADDALENA IS (E-15) IM
MADEIRA IS (AF-33) CT3
MALAGASY REPUBLIC (AF-39) 5R8
MALAWI (AF-37) 7Q7
MALAYSIA, EAST (A-28) 9M6,8
MALAYSIA, WEST (A-28) 9M2
MALDIVE IS (A-22) 8Q6
MALI REPUBLIC (AF-35) TZ
MALPELO IS (SA-9) HKØ
MALTA (E-15) 9H1,5
MANIHIKI IS (O-32) ZK1
MARIANA IS (O-27) KG6
MARKET REEF (E-15) OJØ,OHØM
MARSHALL IS (O-31) KX6
MARTINIQUE (NA-8) FM7
MAURITANIA (AF-35) 5T5
MAURITIUS IS (AF-39) 3B8
MAYOTTE (AF-39) FH8
MEXICO (NA-6) XE,XF
MIDWAY IS (O-31) KM6
MINAMI-TORI-SHIMA IS (O-27) JD1
MONACO (E-14) 3A
MONGOLIA (A-23) JT1
MOROCCO (AF-33) CN
MOZAMBIQUE (AF-37) C9M

NAURU, REPUBLIC OF (O-31) C21
NAVASSA IS (NA-8) KC4
NEPAL (A-22) 9N1
NETHERLANDS (E-14) PA-PI
NETHERLANDS ANTILLES (NA-8 & SA-9) PJ
NEW CALEDONIA (O-32) FK8
NEWFOUNDLAND (NA-5) VO1
NEW HEBRIDES (O-32) YJ
NEW ZEALAND (O-32) ZL
NICARAGUA (NA-7) YN
NIGER (AF-35) 5U7
NIGERIA (AF-35) 5N2
NIUE IS (O-32) ZK2
NORFOLK IS (O-32) VK9N
NORTHERN IRELAND (E-14) GI
NORWAY (E-14) LA-LJ

OGASAWARA IS (A-27) JD1
OKINAWA (RYUKYU IS.) (A-25) JR6
OKINO-TORI-SHIMA (O-27) 7J1
OMAN, SULTANATE OF (A-21) A4X

PAKISTAN (A-21) AP
PALMYRA IS (O-31) KP6
PANAMA (NA-7) HP
PANTELLERIA IS (AF-33) IH
PAPUA NEW GUINEA (O-28) P29
PARAGUAY (SA-11) ZP
PERU (SA-10) OA
PHILIPPINES (O-27) DU
PHOENIX IS (O-31) KB6
PITCAIRN IS (O-32) VR6
POLAND (E-15) SP
PORTUGAL (E-14) CT1
PRINCE EDWARD & MARION IS (AF-38) ZS2
PRINCIPE & SAO TOME IS (AF-36) S9
PUERTO RICO (NA-8) KP4

QATAR (A-21) A7X

REUNION IS (AF-39) FR7
REVILLA GIGEDO IS (NA-7) XF4
RHODESIA (AF-38) ZE
RODRIGUEZ IS (AF-39) 3B9
ROMANIA (E-20) YO
ROTA (O-27) KG6R
RWANDA (AF-36) 9X

SABAH (O-28) 9M6
SABA IS (NA-8) PJ6,8
ST. BRANDON IS (AF-39) 3B7
ST. EUSTATIUS (NA-8) PJ5,8
SAINT HELENA IS (AF-36) ZD7
SAINT MARTIN IS (NA-8) FS7
ST.PETER & ST PAULS ROCKS (SA-11) PYØ
ST. PIERRE & MIQUELON IS (NA-5) FP8
SAIPAN (O-27) KG6S
SAMOA, AMERICAN (O-32) KS6
SAMOA, WESTERN (O-32) 5W1
SAN ANDRES & PROVIDENCIA (NA-7) HKØ
SAN FELIX IS (SA-12) CEØX
SAN MARINO (E-15) M1
SARAWAK (O-28) 9M8
SARDINIA (E-15) IS
SAUDI ARABIA (A-21) HZ,7Z
SAUDI ARABIA/IRAQ
NEUTRAL ZONE (A-21) 8Z4
SCOTLAND (E-14) GM
SENEGAL REPUBLIC (AF-35) 6W8
SERRANA BK & RONCADOR CAY (NA-7) HKØ
SEYCHELLES IS (AF-39) S79
SICILY (E-15) IT
SIERRA LEONE (AF-35) 9L1
SINGAPORE, REP OF (A-28) 9V1
SINT MAARTEN (NA-8) PJ7,8
SOLOMON IS (O-28) H4
SOMALI REPUBLIC (AF-37) 6O
SOUTH AFRICA,REP OF (AF-38) ZR,ZS1,2,4-6
SOUTH GEORGIA IS (SA-13) VP8
SOUTH ORKNEY IS (SA-13) LU-Z,VP8
SOUTH SANDWICH IS (SA-13) LU-Z,VP8
S.SHETLAND IS (SA-13) CE9AN-AZ,LU-Z,VP8
SOUTHWEST AFRICA(NAMIBIA) (AF-38) ZR3,ZS3
SOUTH YEMAN (A-21) 7O
SOVIET UNION:
EUROPEAN RUSSIAN SOVIET FEDERATED
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ASIATIC RUSSIAN SFSR (A-17-19,23) UA9,Ø
ARMENIAN S.S.R. (A-21) UG6
AZERBAIDZHAN S.S.R. (A-21) UD6
ESTONIAN S.S.R. (E-15) UR2
FRANZ JOSEF LAND (E-40) UA1
GEORGIAN S.S.R. (A-21) UF6
KALININGRADSK (E-15) UA2
KARELO-FINNISH S.S.R. (E-16) UN1
KAZAKH S.S.R. (A-17) UL7
KIRGHIZ S.S.R. (A-17) UM8
LATVIAN S.S.R. (E-15) UQ2
LITHUANIAN S.S.R. (E-15) UP2
MOLDAVIAN S.S.R. (E-16) UO5
TADZHIK S.S.R. (A-17) UJ8
TURKMEN S.S.R. (A-17) UH8
UKRAINIAN S.S.R. (E-16) UB5
UZBEK S.S.R. (A-17) UI8
WHITE RUSSIAN S.S.R. (E-16) UC2
SPAIN (E-14) EA
SPANISH SAHARA (A-33) EA9
SRI LANKA (A-22) 4S7
SUDAN (AF-34) ST
SURINAM (SA-9) PZ
SVALBARD IS (E-40) JW
SWAN IS (NA-7) HRØ
SWAZILAND (AF-38) 3D6
SWEDEN (E-14) SJ-SM
SWITZERLAND (E-14) HB
SYRIA (A-20) YK

TAIWAN (A-24) BV
TANZANIA (AF-37) 5H3
THAILAND (A-26) HS
TIBET (A-23) AC4
TIMOR PORTUGUESE (O-28) YB-YD
TOGO (AF-35) 5V
TOKELAU IS (O-31) ZM7
TONGA (O-32) A35
TRANSKEI (AF-38) S8
TRINDADE & MARTIM VAZ IS (SA-11) PYØ
TRINIDAD & TOBAGO IS (SA-9) 9Y4
TRISTAN DE CUNHA (AF-38) ZD9
TROMELIN IS (AF-39) FR7
TUNISIA (AF-33) 3V8
TURKEY (A-20) TA,TC
TURKS & CAICOS IS (NA-8) VP5
TUSCAN ARCHIPELAGO (E-15) IA
TUVALU IS (O-31) VR8

UGANDA (AF-37) 5X5
UNITED ARAB EMIRATES (A-21) A6X
UNITED NATIONS, GENEVA (E-14) 4U
UNITED STATES OF AMERICA (NA-3,4,5) N,W,K
URUGUAY (SA-13) CX

VATICAN CITY (E-15) HV
VENEZUELA (SA-9) YV
VIETNAM (A-26) XV5
VIRGIN IS (NA-8) KV4
VOLTAIC REPUBLIC (AF-35) XT2

WAKE IS (O-31) KW6
WALES (E-14) GW
WALLIS & FUTUNA IS (O-32) FW8
WILLIS IS (O-30) VK9Z
WINDWARD IS:
DOMINICA (NA-8) VP2D
ST. LUCIA (NA-8) VP2L
ST.VINCENT & DEPENDENCIES (NA-8) VP2S

YEMEN (A-21) 4W
YUGOSLAVIA (E-15) YU

ZAIRE, REPUBLIC OF (AF-36) 9Q5
ZAMBIA (AF-36) 9I,9J
ZANZIBAR (TANZANIA) (AF-37) 5H1

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A9X Amateur Radio Association Bahrain, Box 472, Awali, Bahrain, Arabian Gulf
AP Pakistan Amateur Radio Society, QSL Bureau, Box 65, Lahore, West Pakistan
BV2 China Radio Association, Box 101, Taipei, Taiwan 100, Republic of China
CE Radio Club of Chile, Box 13630, Correo 15, Santiago, Chile or Federacion de Clubes de Radioaficionados de Chile, Box 72, Valparaiso, Chile
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C21 Nauru Amateur Radio Club, Box 29, Nauru
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HL9 All HL9 Stations - Address with Call Letters and Name, C/O United States Forces Korea, OAC OFS, J-6, APO San Francisco 96301
HM KARL, Central Box 162, Seoul 100-00, Korea
HP Liga Panamena Radioaficionados - IARU Member-, Box 175, Panama 9A, Republic de Panama or Radio Club de Panama, Box 10745, Panama 4, Panama
HP3 Esteban D Mackay, HP3ML
HR Radio Club Tegucigalpa, Box 149-C, Tegucigalpa, DC, Honduras
HR2 QSL Bureau, Radio Club de Honduras, Box 273, San Pedro Sula, Cortes, Honduras
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VK2 WIA Hunter Branch, QSL Officer, Box 134, Charlestown 2290, NSW, Australia
VK3 QSL Bureau, E Trebilcock, 340 Gillies St, Thornbury 3071, Victoria, Australia
VK4 QSL Officer, Box 638, GPO, Brisbane 4001, Queensland, Australia
VK5 QSL Bureau, C/O George Luxon, 203 Belair Rd, Torrens Park 5062, SA, Australia
VK6 QSL Bureau, C/O J Rumble, VK6RU, Box F319, GPO Perth 6001, West Australia, Australia
VK7 QSL Bureau, Box 371D, GPO, Hobart 7001, Tasmania, Australia
VK8 QSL Bureau, Box 1418, Darwin 5794, Northern Territory, Australia
VK9-0-SWL And Unlisted Calls ONLY QSL Bureau, C/O R Jones, 23 Landale St, Box Hill 3128, Victoria, Australia
VO1 & 2 ARRL Central QSL Bureau of Canada, Box 663, Halifax, Nova Scotia B3J 2T3, Canada or Via Bill Coffen, VO1KM
VP2A Antigua - Gerald Price, VP2AC
VP2D Dominica - Austin L Harris, VP2DAJ
VP2G Grenada - Fred W Pressey, VP2GBL
VP2L St Lucia - Clement Bobb, VP2LCT
VP2S St Vincent - Via QSL Bureau, Box 142, St Vincent, Windward Is
VP8 Cards for Falkland Is & South Georgia Should Be Sent Direct ONLY Cards for Falkland Island Stations NOT Listed May Be Sent Via VP8ON Cards for Antarctic Stations May Be Sent C/O GPO Stanley, Falkland Islands - For Onward Shipment
VP9 Radio Society of Bermuda, Box 275, Hamilton 5, Bermuda
VQ9 VQ9 QSL Bureau, C/O MARS Station, NCS Diego Garcia, FPO San Francisco 96685
VS6 Cards for Members ONLY Via Hong Kong Amateur Radio Transmitting Soc, Box 541, Hong Kong
VU Amateur Radio Society of India, Box 534, New Delhi 1, India or Via Calcutta ARL, 17 Woodlands, 8/7 Alipore Rd, Calcutta 700027, India
W-K-N1 Foreign Stations Only Via Hampden County A R Assn, Box 216, Forest Park Stn, Springfield, Mass 01108
W-K-N2 Foreign Stations Only Via North Jersey DX Assn, Box 8160, Haledon, New Jersey 07508
W-K-N3 Foreign Stations Only Via Jesse Bieberman, W3KT, RFD 1-Box 66, Malvern, PA 19355
W-K-N4 Foreign Stations Only Via National Capitol DX Assn, Box DX, Boyce, Virginia 22620
WA-WB4 Foreign Stations Only Via Sterling Park ARC, Box 599, Sterling, Virginia 22170
W-K-N5 Foreign Stations Only Via ARRL W5 QSL Bureau, Box 1690, Sherman, Texas 75090
W-K-N6 Foreign Stations Only Via ARRL Sixth (6th) District DX QSL Bureau, 2814 Empire Av, Burbank, Calif 91504
W-K-N7 Foreign Stations Only Via Willamette Valley DX Club, Box 555, Portland, Oregon 97207
W-K-N8 Foreign Stations Only Via W8TO, Columbus A R Assn, Radio RM, 280 E Broad St, Columbus, Ohio 43215
W-K-N9 Foreign Stations Only Via Northern Illinois DX Assn, Box 519, Elmhurst, Illinois 60126
W-K-N0 Foreign Stations Only Via AK-SAR-BEN RC Inc, Box 291, Omaha, Nebraska 68101
XE IARU-LMRE, Box 907, Mexico 1, DF, Mexico or Via ARARM QSL Bureau, Box 53, Mexico 1, DF, Mexico
XZ BARTS, C/O Zaw Yee, XZ2SY, 9 Fifth Mile, Kaba Aye Pagoda Rd, Yankin, Post Office, Rangoon, Burma
YA Wolfgang Renner, DK5AR
YB1 QSL Bureau, Box 314, Bandung, Indonesia
YB2 Central Java Northern Area Via QSL Bureau, Box 88, Semarang, Indonesia Central Java Southern Area Via QSL Bureau, Box 73, Solo, Indonesia
YB3 QSL Bureau, Box 59, Surabaia, Indonesia
YB4 Johanes Titaley, YB4GA
YB6 QSL Bureau, Box 464, Medan, Indonesia
YB7-0 ORARI QSL Bureau, Box 2761, Jakarta, Indonesia
YK QSL Bureau, Box 35, Damascus, Syria
YN Mike Murciano, YN1MO/W4, Box 340902, Coral Gables, Florida 33134
YO The Central Radio Club, Box 1395, Bucuresti 5, Romania
YS Members Only - CRAS, Box 517, San Salvador, El Salvador
YU SRJ, Box 48, 11001 Belgrade, Yugoslavia
YU1 SRS, Box 64, 11001 Belgrade, Yugoslavia
YU2 SRH, Dalmatinska 12, 41000 Zagreb, Yugoslavia
YU3 ZRS, Box 180, 61001 Ljubljana, Yugoslavia
YU4 SR BIH, Box 61, 71001 Sarajevo, Yugoslavia
YU5 SRM, Box 14, 91001 Skopje, Yugoslavia
YV IARU Bureau, Radio Club Venezolana, Box 2285, Caracas, DF, Venezuela or ARV QSL Bureau, Box 3636, Caracas, DF, Venezuela
ZB2 Gibraltar ARS, Box 292, Gibraltar
ZC4 Joint Signal Board Hdqtrs, British Forces Cyprus, BFPO 53, London GPO, England
ZD7 W R Stevens, ZD7SD
ZD8 Dave Oswald, ZD8DO
ZE RSR QSL Manager, Box 2377, Salisbury, Rhodesia
ZF1 Cards Addressed to Cayman Is ONLY May Be Sent Via ZF1AK
ZK1 QSL Bureau, Radio Station Rarotonga, Rarotonga, Cook Is
ZL NZART, Box 40-212, Upper Hutt, New Zealand
ZP Radio Club Paraguayo, Casilla de Correo 512, Asuncion, Paraguay
ZR-ZS For Members ONLY - SARL, Box 3037, Capetown 8000, Cape Province, South Africa
3A2 Pierre Anderhalt, 3A2CN or Director Generale des Telecoms, 16 Blvd de Suisse, Monte Carlo, Monaco
3B6-9 Paul Caboche, 3B8AD
3D2 QSL Bureau, Box 184, Suva, Fiji Islands
3D6 Radio Society of Swaziland, Box 21, Ezulwini, Swaziland
4S7 Radio Society of Sri Lanka, QSL Manager, Box 907, Colombo, Sri Lanka
4X4-4Z4 Shalom Bacalu, 4Z4BS, IARC QSL Bureau Manager, Box 10191, Tel-Aviv 61290, Israel
5A QSL Bureau, Box 372, Tripoli, Libya
5B4 Cyprus Amateur Radio Society, Box 1267, Limassol, Cyprus
5N2 Nigerian Amateur Radio Society, Box 2873, Lagos, Nigeria
5V Via Box 33, Atakpame, Togo
5W1 Western Samoa RC, QSL Bureau-Secretary, Box 1069, Apia, Western Samoa
5Z4 RSEA QSL Bureau, Box 45681, Nairobi, Kenya
60 Via Box 397, Mogadiscio, Somali Republic
6W8 REF or ARAS, Box 971, Dakar, Senegal
6Y5 Jamaica Amateur Radio Assn, Jamaica Red Cross, 76 Arnold St, Kingston 5, Jamaica, West Indies
7Q7 H Y Bvumbwe, 7Q7AE
7X ARA QSL Service, Box 2, Alger, Algeria
8P6 Radio Society of Barbados, Box 814E, Bridgetown, Barbados, Windward Is
8Q6 Radio Society of Sri Lanka, Box 907, Colombo, Sri Lanka
8R1 Ivan Gouveia, 8R1AG
9G1 Cards For Members ONLY, Ghana Amateur Radio Society, Box 3773, Accra, Ghana
9H1-5 MARL, Box 575, Valletta, Malta
9H4 Eric Rogers, 9H4G
9I-9J Radio Society of Zambia, Box 332, Kitwe, Zambia
9K2 Nasir H Khan, 9K2AN
9L1 Sierra Leone ARS, 9L1SL, Box 16, Freetown, Sierra Leone
9M2,6,8 MARTS, Box 777, Kuala Lumpur, Malaysia
9Q5 UZRA, QSL Bureau, Box 1459, Kinshasa, Republic of Zaire
9U5 BARC QSL Bureau, ON5TO, 8 Boterbekeweg, B-8200 Brussels, Belgium
9V1 SARTS, Box 2728, Republic of Singapore 1
9X5 RAR QSL Bureau, Box 663, Kigali, Republic of Rwanda
9Y4 Trinidad & Tobago Amateur Radio Society, Box 1167, Port-Of-Spain, Trinidad

A. R. R. L. Countries List

The ARRL Postwar Countries List is the official standard used in connection with the DX Century Club. To qualify for the DX Century Club Award, an applicant must submit confirmations from at least 100 different countries contacted after November 15, 1945, in accordance with the Postwar DXCC Rules. Copies of the DXCC Rules will be furnished by ARRL on request

A2 ..... BOTSWANA
A3 ..... TONGA IS.
A4X ..... OMAN
A5 ..... BHUTAN
A6X ..... UNITED ARAB EMIRATES
A7X ..... QATAR
A9X ..... BAHREIN
AP ..... PAKISTAN
BV ..... FORMOSA
BY ..... CHINA
CZ ..... REP. OF NAURU
C3 ..... ANDORRA
C5 ..... THE GAMBIA
C6 ..... BAHAMA IS.
C9 ..... MOZAMBIQUE
CE ..... CHILE
CE9AA-AM, FB8Y, KC4, LA, LU-Z, OR4, UA1, UK1, VKØ, VP8, ZL5, ZS1, 3Y, 4K, 8J ..... ANTARCTICA
CE9AN-AZ (SEE VP8)
CEØA ..... EASTER IS.
CEØX ..... SAN FELIX
CEØZ ..... JUAN FERNANDEZ
CM, CO ..... CUBA
CN ..... MOROCCO
CP ..... BOLIVIA
CR3 ..... GUINE BISSAU
CR5 ..... PRINCIPE, SAO THOME
CR9 ..... MACAO
CT ..... PORTUGAL
CT2 ..... AZORES
CT3 ..... MADEIRA IS.
CX ..... URUGUAY
*DA, DJ, DK, DL ..... FEDERAL REPUBLIC OF GERMANY
*DM, DT ..... GERMAN DEMOCRATIC REPUBLIC
DU ..... PHILIPPINE IS.
D2, D3 ..... ANGOLA
D4 ..... CAPE VERDE IS.
*D6 ..... COMOROS
EA ..... SPAIN
EA6 ..... BALEARIC IS.
EA8 ..... CANARY IS.
EA9 ..... RIO DE ORO
EA9 ..... CEUTA AND MELILLA
EI ..... REPUBLIC OF IRELAND
EL ..... LIBERIA
EP ..... IRAN
ET ..... ETHIOPIA
F ..... FRANCE
FB8W ..... CROZET
FB8X ..... KERGUELEN IS.
FB8Y (SEE CE9AA-AM)
FB8Z ..... AMSTERDAM & ST. PAUL IS.
*FC ..... CORSICA
FG ..... GUADELOUPE
*FH ..... COMORO IS.
FK ..... NEW CALEDONIA
FL ..... AFARS & ISSAS TERR
FM ..... MARTINIQUE
FO ..... CLIPPERTON IS.
FO ..... FR POLYNESIA
FP ..... ST. PIERRE & MIQUELON
*FR ..... GLORIOSO IS.
*FR ..... JUAN DE NOVA, EUROPA
FR ..... REUNION
FR ..... TROMELIN
*FS ..... SAINT MARTIN
FW ..... WALLIS & FUTUNA IS.
FY ..... FRENCH GUIANA
G ..... ENGLAND
GC, GU ..... GUERNSEY & DEPENDENCIES
GC, GJ ..... JERSEY
GD ..... ISLE OF MAN
GI ..... NORTHERN IRELAND
GM ..... SCOTLAND
GW ..... WALES
HA ..... HUNGARY
HB ..... SWITZERLAND
HBØ ..... LIECHTENSTEIN
HC ..... ECUADOR
HC8 ..... GALAPAGOS IS.
HH ..... HAITI
HI ..... DOMINICAN REPUBLIC
HK ..... COLOMBIA
HKØ ..... BAJO NUEVO
HKØ ..... MALPELO IS.
HKØ ..... SAN ANDRES & PROVIDENCIA
HKØ (SEE KS4)
HL, HM ..... KOREA
HP ..... PANAMA
HR ..... HONDURAS
HS ..... THAILAND
HV ..... VATICAN
HZ, 7Z ..... SAUDI ARABIA
I, IT ..... ITALY
IS ..... SARDINIA
JA, JE, JG, JH, JR, KA ..... JAPAN
*JD, KA1 ..... OGASAWARA
*JD1 ..... OKINO TORI-SHIMA
*JD, KA1 ..... MINAMI TORISHIMA
JT ..... MONGOLIA
JW ..... SVALBARD
JX ..... JAN MAYEN
JY ..... JORDAN
K, W, N ..... UNITED STATES OF AMERICA
KA (SEE JA)
KA1 (SEE JD)
KB ..... BAKER, HOWLAND & AMERICAN PHOENIX IS.
KC4 (SEE CE9AA-AM)
KC4 ..... NAVASSA IS.
KC6 ..... EASTERN CAROLINE IS.
KC6 ..... WESTERN CAROLINE IS.
KG4 ..... GUANTANAMO BAY
KG6 ..... GUAM
KG6R, S, T ..... MARIANA IS.
KH ..... HAWAIIAN IS.
KH ..... KURE IS.
KJ ..... JOHNSTON IS.
KL ..... ALASKA
KM ..... MIDWAY IS.
*KP4 ..... PUERTO RICO
KP6 ..... KINGMAN REEF
KP6 ..... PALMYRA, JARVIS IS.
KS4, HKØ ..... SERRANA BANK & RONCADOR CAY
KS6 ..... AMERICAN SAMOA
KV ..... VIRGIN IS.
KW ..... WAKE IS.
KX ..... MARSHALL IS.
KZ ..... CANAL ZONE
LA, LB, LF, LG, LJ ..... NORWAY
LA (SEE CE9AA-AM)
LU ..... ARGENTINA
LU-Z (SEE CE9AA-AM, VP8)
LX ..... LUXEMBOURG
LZ ..... BULGARIA
*M1 (SEE 9A)
OA ..... PERU
OD ..... LEBANON
OE ..... AUSTRIA
OH ..... FINLAND
OHØ ..... ALAND IS.
OJØ ..... MARKET
OK ..... CZECHOSLOVAKIA
ON ..... BELGIUM
OR4 (SEE CE9AA-AM)
OX, XP ..... GREENLAND
OY ..... FAROE IS.
OZ ..... DENMARK
*P2 ..... PAPUA NEW GUINEA
PA, PD, PE, PI ..... NETHERLANDS
PJ ..... NETHERLAND ANTILLES
PJ ..... ST. MAARTEN, SABA & ST. EUSTATIUS
PY ..... BRAZIL
PYØ ..... FERNANDO DE NORONHA
PYØ ..... ST. PETER & ST. PAUL'S ROCKS
PYØ ..... TRINDADE & MARTIM VAZ IS.
PZ ..... SURINAM
S2 ..... BANGLADESH
ST ..... SEYCHELLES
SK, SL, SM ..... SWEDEN
SP ..... POLAND
ST ..... SUDAN
SU ..... EGYPT
SV ..... CRETE
SV ..... DODECANESE
SV ..... GREECE
SV ..... MOUNT ATHOS
TA ..... TURKEY
TF ..... ICELAND
TG ..... GUATEMALA
TI ..... COSTA RICA
TI9 ..... COCOS IS.
TJ ..... CAMEROUN
*TL ..... CENTRAL AFRICAN REP.
*TN ..... CONGO REP.
*TR ..... GABON REP.
*TT ..... CHAD REP.
*TU ..... IVORY COAST
*TY ..... DAHOMEY REP.
*TZ ..... MALI REP.
UA; UK1, 3, 4, 6; UV; UW1-6; UN1
..... EUROPEAN RUSSIAN S.F.S.R.
UA1, UK1 ..... FRANZ JOSEF LAND
UA1, UK1 (SEE CE9AA-AM)
UA2, UK2F ..... KALININGRADSK
UA, UK, UV, UW9, 0 ..... ASIATIC R.S.F.S.R.
UB, UK, UT, UY5 ..... UKRAINE
UC2, UK2A/C/I/L/O/S/W ..... WHITE R.S.S.R.
UD6, UK6C/D/K ..... AZERBAIJAN
UF6, UK6F/O/Q/V ..... GEORGIA
UG6, UK6G ..... ARMENIA
UH8, UK8H ..... TURKOMAN
UI8, UK8 ..... UZBEK
UJ8, UK8J/R ..... TADZHIK
UL7, UK7 ..... KAZAKH
UM8, UK8M, N ..... KIRGHIZ
UO5, UK5O ..... MOLDAVIA
UP2, UK2B/P ..... LITHUANIA
UQ2, UK2G/Q ..... LATVIA
UR2, UK2R/T ..... ESTONIA
VE, VO ..... CANADA
VE1 ..... SABLE IS.
VE1 ..... ST. PAUL IS.
VK ..... AUSTRALIA
VK ..... LORD HOWE IS.
VK9 ..... WILLIS IS.
VK9 ..... CHRISTMAS IS.
VK9 ..... COCOS IS.
VK9 ..... MELLISH REEF
VK9 ..... NORFOLK IS.
VKØ (SEE CE9AA-AM)
VKØ ..... HEARD IS.
VKØ ..... MACQUARIE IS.
VO (SEE VE)
VP1 ..... BELIZE
*VP2E ..... ANGUILLA
*VP2A ..... ANTIGUA, BARBUDA
*VP2V ..... BRITISH VIRGIN IS.
*VP2D ..... DOMINICA
*VP2G ..... GRENADA & DEPENDENCIES
*VP2M ..... MONTSERRAT
*VP2K ..... ST. KITTS, NEVIS
*VP2L ..... ST. LUCIA
*VP2S ..... ST. VINCENT & DEPENDENCIES
VP5 ..... TURKS & CAICOS IS.
VP8 (SEE CE9AA-AM)
VP8 ..... FALKLAND IS.
VP8, LU-Z ..... SO. GEORGIA IS.
VP8, LU-Z ..... SO. ORKNEY IS.
VP8, LU-Z ..... SO. SANDWICH IS.
VP8, LU-Z, CE9AN-AZ ..... SO. SHETLAND IS.
VP9 ..... BERMUDA IS.
VQ9 ..... CHAGOS IS.
VR1 ..... BRITISH PHOENIX IS.
VR1 ..... GILBERT & OCEAN IS.
VR3, 7 ..... LINE IS.
VR4 ..... SOLOMON IS.
VR6 ..... PITCAIRN IS.
VR7 (SEE VR3)
*VR8 ..... TUVALU
VS5 ..... BRUNEI
VS6 ..... HONG KONG
VS9 (SEE 8Q)
VS9K ..... KAMARAN IS.
VU ..... INDIA
VU7 ..... ANDAMAN & NICOBAR IS.
VU7 ..... LACCADIVE IS.
W (SEE K)
XE ..... MEXICO
XF4 ..... REVILLA GIGEDO
XP (SEE OX)
*XT ..... VOLTAIC REP.
XU ..... KHMER REP.
XV ..... VIETNAM
XW ..... LAOS
XZ ..... BURMA
YA ..... AFGHANISTAN
*YB, YC ..... INDONESIA
YI ..... IRAQ
YJ ..... NEW HEBRIDES
YK ..... SYRIA
YN ..... NICARAGUA
YO ..... RUMANIA
YS ..... SALVADOR
YU ..... YUGOSLAVIA
YV ..... VENEZUELA
YVØ ..... AVES IS.
ZA ..... ALBANIA
ZB ..... GIBRALTAR
ZC (SEE 5B)
ZD7 ..... ST. HELENA
ZD8 ..... ASCENSION IS.
ZD9 ..... TRISTAN DA CUNHA & GOUGH IS.
ZE ..... RHODESIA
ZF ..... CAYMAN IS.
ZK1 ..... COOK IS.
ZK1 ..... MANIHIKI IS.
ZK2 ..... NIUE
ZL ..... AUCKLAND IS. & CAMPBELL IS.
ZL ..... CHATHAM IS.
ZL ..... KERMADEC IS.
ZL ..... NEW ZEALAND
ZL5 (SEE CE9AA-AM)
ZM ..... TOKELAUS
ZP ..... PARAGUAY
ZS1, 2, 4, 5, 6 ..... SOUTH AFRICA
ZS1 (SEE CE9AA-AM)
ZS2 ..... PRINCE EDWARD & MARION IS.
ZS3 ..... (NAMIBIA) SOUTHWEST AFRICA
*1S ..... SPRATLY IS.
3A ..... MONACO
3B6, 7 ..... AGALEGA & ST. BRANDON
3B8 ..... MAURITIUS
3B9 ..... RODRIGUEZ IS.
3C ..... EQUATORIAL GUINEA
3CØ ..... ANNOBON
3D2 ..... FIJI IS.
3D6 ..... SWAZILAND
3V ..... TUNISIA
3X ..... REP. OF GUINEA
3Y ..... BOUVET
3Y (SEE CE9AA-AM)
4K (SEE CE9AA-AM)
4S ..... SRI LANKA
4U ..... I.T.U. GENEVA
4W ..... YEMEN
4X, 4Z ..... ISRAEL
5A ..... LIBYA
5B, ZC ..... CYPRUS
5H ..... TANZANIA
5N ..... NIGERIA
5R ..... MALAGASY REP.
*5T ..... MAURITANIA
*5U ..... NIGER REP.
5V ..... TOGO REP.
5W ..... WESTERN SAMOA
5X ..... UGANDA
5Z ..... KENYA
6O ..... SOMALI REP.
*6W ..... SENEGAL REP.
6Y ..... JAMAICA
7O ..... SOUTH YEMEN
7P ..... LESOTHO
7Q ..... MALAWI
7X ..... ALGERIA
7Z (SEE HZ)
8J (SEE CE9AA-AM)
8P ..... BARBADOS
8Q, VS9 ..... MALDIVE IS.
8R ..... GUYANA
8Z4 ..... SAUDI ARABIA/IRAQ NEUTRAL ZONE
*9A, (M1) ..... SAN MARINO
*9G ..... GHANA
9H ..... MALTA
9J ..... ZAMBIA
9K ..... KUWAIT
9L ..... SIERRA LEONE
*9M2 ..... WEST MALAYSIA
*9M6, 8 ..... EAST MALAYSIA
9N ..... NEPAL
9Q ..... REP. OF ZAIRE
*9U ..... BURUNDI
*9V ..... SINGAPORE
*9X ..... RWANDA
9Y ..... TRINIDAD & TOBAGO
* ABU AIL; JABAL AT TAIR
* GEYSER REEF

*Consult current ARRL Operating Aid 7 for applicable footnote. Available free by request to ARRL Communications Dep't, 225 Main Street, Newington, Conn. 06111.

INTERNATIONAL "Q" SIGNALS

Abbreviation	Question	Answer or Advice
QRA	What is the name of your station?	The name of my stations is . . .
QRB	How far approximately are you from my station?	The approximate distance between our stations is . . . nautical miles (or kilometres)
QRD	Where are you bound and where are you from?	I am bound for . . . from . . .
QRG	Will you tell me my exact frequency or that of . . .)?	Your exact frequency (or that of . . . is . . . kc/s (or Mc/s).
QRH	Does my frequency vary?	Your frequency varies.
QRI	How is the tone of my transmission?	The tone of your transmission is . . . (1. Good; 2. Variable; 3. Bad).
QRK	What is the readability of my signals (or those of . . .)?	The readability of your signals (or those of . . .) is . . . (1. Unreadable; 2. Readable now and then; 3. Readable, but with difficulty; 4. Readable; 5. Perfectly readable).
QRL	Are you busy?	I am busy (or I am busy with . . .). Please do not interfere.
QRM	Are you being interferred with?	I am being interferred with.
QRN	Are you troubled by static?	I am troubled by static.
QRO	Shall I increase power?	Increase power.
QRP	Shall I decrease power?	Decrease power.
QRQ	Shall I send faster?	Send faster (. . . words per minute).
QRR	Are you ready for automatic operation?	I am ready for automatic operation. Send at . . . words per minute.
QRS	Shall I send more slowly?	Send more slowly (. . . words per minute).
QRT	Shall I stop sending?	Stop sending.
QRU	Have you anything for me?	I have nothing for you.
QRV	Are you ready?	I am ready.
QRW	Shall I inform . . . that you are calling him on . . . kc/s (or Mc/s).	Please inform . . . that I am calling him on . . . kc/s (or Mc/s).
QRX	When will you call me again?	I will call you again at . . . hours [on . . . kc/s (or Mc/s)].
QRY	What is my turn?	Your turn is Number . . . (Relates to communication.)
QRZ	Who is calling me?	You are being called by . . . [on . . . kc/s or Mc/s)].
QSA	What is the strength of my signals (or those of . . .)?	The strength of your signals (or those of . . .) is . . . (1. Scarcely perceptible; 2. Weak; 3. Fairly good; 4. Good; 5. Very good).
QSB	Are my signals fading?	Your signals are fading.
QSD	Is my keying defective?	Your keying is defective.
QSG	Shall I send . . . telegrams at a time?	Send . . . telegrams at a time.
QSJ	What is the charge to be collected per word to . . . including your internal telegraph charge?	The charge to be collected per word to . . . including my internal telegraph charge is . . . francs.
QSK	Can you hear me between your signals?	I can hear you between my signals.
QSL	Can you acknowledge receipt?	I am acknowledging receipt.
QSM	Shall I repeat the last telegram which I sent you, or some previous telegram?	Repeat the last telegram which you sent me [or telegram(s) number(s) . . .].
QSN	Did you hear me [or . . . (call sign)] on . . . kc/s (or Mc/s)?	I did hear you [or . . . (call sign) on . . . kc/s (or Mc/s).
QSO	Can you communicate with . . . direct or by relay?	I can communicate with . . . direct (or by relay through . . .).
QSP	Will you relay to . . . free of charge?	I will relay to . . . free of charge.
QSQ	Have you a doctor on board [or is . . . (name of person) on board]?	I have a doctor on board [or . . . name of person) is on board].
QSU	Shall I send or reply on this frequency [or on . . . kc/s (or Mc/s)] (with emissions of class . . .)?	Send or reply on this frequency [or on . . . kc/s (or Mc/s] (with emissions of class . . .).
QSV	Shall I send a series of V's on this frequency [or . . . kc/s (or Mc/s)]?	Send a series of V's on this frequency [or . . . kc/s (or Mc/s)].
QSW	Will you send on this frequency [or on . . . kc/s (or Mc/s)] (with emissions of class)?	I am going to send on this frequency [or on . . . kc/s (or Mc/s)] (with emissions of class . . .).
QSX	Will you listen to . . . [call sign(s)] on . . . kc/s (or Mc/s)	I am listening to . . . [call sign(s)] on . . . kc/s (or Mc/s).
QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency [or on . . . kc/s (or Mc/s)].
QSZ	Shall I send each word or group more than once?	Send each word or group twice (or . . . times).
QTA	Shall I cancel telegram number . . . as if it had not been sent?	Cancel telegram number . . . as if it had not been sent.
QTB	Do you agree with my counting of words?	I do not agree with your counting of words; I will repeat the first letter or digit of each word or group.
QTC	How many telegrams have you to send?	I have . . . telegrams for you (or for . . .).
QTE	What is my TRUE bearing from you? or What is my TRUE bearing from . . . (call sign)? or What is the TRUE bearing of . . . (call sign) from . . . (call sign)?	Your TRUE bearing from me is . . . degrees (at . . . hours) or Your TRUE bearing from . . . (call sign) was . . . degrees (at . . . . . hours) or The TRUE bearing of . . . (call sign) from . . . (call sign) was . . . degrees at . . . hours).
QTG	Will you send two dashes of ten seconds each followed by your call sign (repeated . . . times) [on . . . kc/s (or Mc/s)]? or Will you request . . . to send two dashes of ten seconds followed by his call sign (repeated . . . times) on . . . kc/s (or Mc/s)?	I am going to send two dashes of ten seconds each followed by my call sign (repeated . . . times) [on . . . kc/s (or Mc/)] or I have requested . . . to send two dashes of ten seconds followed by his call sign (repeated . . . times) on . . . kc/s (or Mc/s).
QTH	What is your position in latitude and longitude (or according to any other indication)?	My position is . . . latitude . . . longitude (or according to any other indication).
QTI	What is your TRUE track?	My TRUE track is . . . degrees.
QTJ	What is your speed?	My speed is . . . knots (or kilometres per hour).
QTL	What is your TRUE heading?	My TRUE heading is . . . degrees.
QTN	At what time did you depart from . . . (place)?	I departed from . . . (place) at . . . hours.
QTO	Have you left dock (or port)? or Are you airborne?	I have left dock (or port) or I am airborne.
QTP	Are you going to enter dock (or port)? or Are you going to alight (or land)?	I am going to enter dock (or port) or I am going to alight (or land).
QTQ	Can you communicate with my station by means of the International Code of Signals?	I am going to communicate with your station by means of the International Code of Signals.
QTR	What is the correct time?	The correct time is . . . hours.
QTS	Will you send your call sign for . . . minute(s) now (or at . . . hours) [on . . . kc/s (or Mc/s] so that your frequency may be measured?	I will send my call sign for . . . minute(s) now (or at . . . hours) [on . . . kc/s (or Mc/s)] so that my frequency may be measured.
QTU	What are the hours during which your station is open?	My station is open from . . . to . . . hours.
QTV	Shall I stand guard for you on the frequency of . . . kc/s (or Mc/s) (from . . . to . . . hours)?	Stand guard for me on the frequency of . . . kc/s (or Mc/s) (from . . . to . . . hours).
QTX	Will you keep your station open for further communication with me until further notice (or until . . . hours)?	I will keep my station open for further communication with you until further notice (or until . . . hours).
QUA	Have you news of . . . (call sign)?	Here is news of . . . (call sign).
QUB	Can you give me, in the following order, information concerning: visibility, height of clouds, direction and velocity of ground wind at . . . (place of observation)?	Here is the information requested . . .
QUC	What is the number (or other indication) of the last message you received from me [or from (call sign]?	The number (or other indication) of the last message I received from you [or from . . . (call sign)] is . . .
QUD	Have you received the urgency signal sent by . . . (call sign of mobile station)?	I have received the urgency signal sent by . . . (call sign of mobile station) at . . . hours).
QUF	Have you received the distress signal sent by . . . (call sign of mobile station)?	I have received the distress signal sent by . . . (call sign of mobile station) at . . . hours.
QUG	Will you be forced to alight (or land)?	I am forced to alight (or land immediately. or I shall be forced to alight (or land) at . . . (position or place).
QUH	Will you give me the present barometric pressure at sea level?	The present barometric pressure at sea level is . . . (units).

Z-CODE FOR POINT-TO-POINT SERVICE

Asterisk indicates U. S. Military Usage

NOTE: Numbers 1-5 following the "Z" signal mean:
1. Very slight
2. Slight
3. Moderate
4. Severe
5. Extreme

- A -

*ZAA YOU ARE NOT OBSERVING CIRCUIT DISCIPLINE.
*ZAB YOUR SPEED KEY IMPROPERLY ADJUSTED.
ZAC Advise (Call sign of) frequency you are reading.
*ZAC Cease using speed key.
*ZAD Signal (1) Not understood (2) Not held.
*ZAE Unable to receive you, try via _____.
*ZAF Reroute the circuit by patching.
*ZAH Unable to relay. We file.
*ZAI Run (foxes, RY's, mk, etc.)
*ZAJ Have been unable to break you.
ZAL Alter your wave-Length.
*ZAL Closing down, due to _____.
ZAN WE CAN RECEIVE ABSOLUTELY NOTHING.
*ZAN Transmit only msgs of above precedence _____.
*ZAO CAN'T UNDERSTAND VOICE. USE TELEGRAPH.
ZAP ACKNOWLEDGE, PLEASE.
*ZAP Work (simplex, duplex, mux, sb).
*ZAQ Last word received (sent) was _____.
ZAR Revert to Automatic Relay.
*ZAS Rerun tapes run on _____ since _____.
*ZAT Punching tape for transmission.
*ZAV Send blind until advised.
*ZAY Send on (kcs). Will confirm later.
*ZAX You are causing interference.

- B -

*ZBA Cause of delay is _____.
*ZBD Following was sent (time).
*ZBE Retransmit message _____ to _____.
*ZBG You are sending upper case.
*ZBH Make call before transmitting traffic.
*ZBI Listen for telephony.
*ZBL Do not use break-in.
*ZBM Put _____ (speed opr.) this frequency.
ZBN Break and go ahead with New slip.
*ZBN Your tape reversed.
*ZBO I HAVE TRAFFIC.
*ZBP (1) Characters indistinct (2) Spacing bad.
*ZBQ When & on what frequency was message received.
ZBR Break circuit. Retuning.
*ZBR Shall I send by (method).
ZBS Blurring Signals (1) Dots heavy (2) Dots light.
*ZBT Count _____ as _____ groups.
*ZBU Report when in communication with _____.
*ZBV Answer on _____ mc.
*ZBW I shift (or ask _____) to (kcs).
ZBY Pull Back your tape one Yard.

- C -

ZCA Circuit Affected. Make readable signals.
ZCB Circuit Broken. Signal unheard.
ZCC Collate Code.
ZCD Your Collation is Different.
ZCF CHECK YOUR CENTER FREQUENCY, PLEASE.
ZCI Circuit Interrupted. Running & available.
ZCK Check Keying.
ZCL TRANSMIT CALL LETTERS INTELLIGIBLY.
ZCO Your Collation Omitted.
ZCP Conditions Poor, increase to maximum.
ZCR Using concentrator. Make warning signals.
ZCS Cease Sending.
ZCT Send Code Twice.
ZCW Are you in direct Communication With _____?

- D -

*ZDA Hr. formal message, priority _____.
*ZDB Expedite reply to my _____.
ZDC Diagnosing Circuit faults, will advise.
ZDE Message undelivered. (1) Will keep trying (2) Advise disposal (3) Cancelling (4) Btr. ads.
*ZDE Message _____ undelivered.
ZDF Frequency is Drifting to degree indicated, 1-5.
*ZDF Message _____ received by addressee (time).
*ZDG Accuracy of following doubtful.
ZDH Your Dots are too Heavy (long).
ZDL Your Dots are too Light (short).
ZDM Your Dots Missing.
*ZDM This is a multiple-address message.
*ZDN Report disposal of message _____.
*ZDQ Message _____ relayed to _____ at _____ by _____.
*ZDS Msg just trans erroneous. Correct version is _____.
ZDT Following Transmitters running Dual.
*ZDT Don't Transmit exercise messages until advised.
ZDV Your Dots Varying length, please remedy.
*ZDV Private message received for _____. Advise.
*ZDY No private messages until ordered.

- E -

*ZEC Have you received message _____?
ZED Experiencing Drop-outs, 1-5.
ZEF We are Experiencing Fill-ins, 1-5.
ZEG We are Experiencing Garbles, 1-5.
*ZEI Accuracy of heading doubtful.
*ZEK No answer required.
*ZEL This message is correction to _____.
*ZEN This message is classified.
*ZEP Parts marked ZEP coming later.
*ZEU Exercise (drill message).

- F -

ZFA Failing Auto.
*ZFA Message intercepted or copied blind.
ZFB SIGNALS ARE FADING BADLY.
*ZFB Pass this message to _____.
ZFC Check your FSK shift, please.
ZFD Depth of Fading is as indicated, 1-5.
*ZFD This message is a suspected duplicate.
*ZFF Advise when message received by _____.
*ZFH Message for (1) Action, (2) Info, (3) Comment.
*ZFI Reply to message? There is no reply.
ZFK Revert to FSK.
ZFO SIGNALS FADED OUT.
ZFQ/x Frequency shift your signal is _____ cps.
ZFR Rapidity of Fading is as indicated, 1-5.
*ZFR Cancel transmission _____.
ZFS Signals are Fading Slightly.

- G -

*ZGB Send (Answer).
ZGF _____ signals Good For _____ wpm.
*ZGF Make call signs more distinctly.
ZGP Please Give Priority.
ZGS YOUR SIGNALS GETTING STRONGER.
ZGW YOUR SIGNALS GETTING WEAKER.

- H -

ZHA How are conditions for Auto reception?
ZHC HOW ARE YOUR RECEIVING CONDITIONS?
ZHM/x Harmonic radiation from transmitter.
ZHS Send High Speed auto _____ wpm.
ZHY We are Holding Your _____.

- I -

ZIM Industrial or Medical interference, 1-5.
ZIP Increase Power.
ZIR You have strong Idle Radiation.
ZIS Atmospheric Interference, 1-5.

- J -

ZJF Frequency Jumping to degree indicated, 1-5.

- K -

*ZKA Who is controlling station? or I am _____.
*ZKB Permission necessary before transmitting msgs.
*ZKD Take control of net _____ or shall I _____.
*ZKE I (or _____) reports into circuit (net).
*ZKF Station leaves net temporarily.
*ZKJ Closing down (until _____).
ZKO REVERT TO ON/OFF KEYING.
ZKQ Say when ready to resume.
*ZKS What Stations Keeping watch on _____?
ZKW Keying Weight is _____ (percent).

- L -

ZLB Give Long Breaks, please.
ZLD We are getting Long Dash from you.
ZLL Distorted LandLine control signals.
ZLP Low (minimum) Power.
ZLS WE ARE SUFFERING FROM LIGHTNING STORM.

- M -

ZMG Magnetic activity.
ZMO STAND BY MOMENT.
ZMP MisPunch or Perforator failures.
ZMQ Stand by for _____.
ZMU/x MUltipath making _____ mark bias.

- N -

ZNB No Breaks, we send twice.
*ZNB Authentication is _____.
ZNC NO COMMUNICATIONS WITH _____.
*ZNC All stations authenticate.
*ZND You are misusing authenticator.
ZNG Receiving conditions No Good for code.
ZNI NO CALL LETTERS (IDENTIFICATION) HEARD.
ZNN ALL CLEAR OF TRAFFIC.
ZNO Not On the air.
ZNR Not Received.
ZNS Here New Slip.

- O -

ZOA Have checked (call-letters) _____ OK.
*ZOC Relay to your sub-stations.
ZOD Observing _____ will transfer when better.
*ZOD Act as radio link between me and _____.
*ZOE Can you accept message? (or) Give me message.
*ZOF Relay this message.
*ZOG Transmit your message (give info.).
ZOH What traffic have you On Hand?
ZOK WE ARE RECEIVING OK.
*ZOK Relay this message via _____.
ZOL OK. On Line.
*ZOM Mail delivery permissible.
ZOR Transmit Only Reversals.
*ZOU Give instructions for routing traffic.
*ZOZ Obtain retransmission of message _____.

- P -

ZPA Printer line Advance not received.
*ZPA Your speech distorted.
ZPC Printer Carriage-return not received.
*ZPC Signals fading, 1-5.
ZPE Punch Everything.
ZPF Printer motor Fast.
ZPO Send Plain Once.
ZPP Punch Plain only.
ZPR Rerun slip at Present Running.
ZPS Printer motor Slow.
ZPT Send Plain Twice.

- R -

ZRA Reverse Auto tape.
*ZRA Mr frequency OK? Your frequency is _____.
ZRB Relayed signal Bad, adjust receiver.
*ZRB Check your frequency on this circuit.
ZRC Can you Receive Code?
*ZRC Shall I, or tune your transmitter to _____.
*ZRE Hear you best on (kcs).
*ZRF Send tuning signals on present frequency.
ZRK Reversed Keying.
ZRL Rerun slip before one now running.
ZRM Please Remove Modulation from _____.
*ZRM I receive (usb, lsb, isb's)
ZRN ROUGH NOTE.
ZRO ARE YOU RECEIVING OK?
ZRR Run Reversals.
ZRS Rerun message No. _____.
ZRT Revert to Traffic.
ZRY Run test slip, please.

- S -

ZSF SEND FASTER.
ZSH STATIC HEAVY HERE.
ZSI/x Please furnish Signal Intensity.
ZSM/x Microvolt input to receiver is _____.
ZSN Give SINPO report on ____ S Signal strength.
I Interference.
N Noise.
P Propagation.
O Overall readability.
ZSO Transmit Slips Once.
ZSR YOUR SIGNALS STRONG & READABLE.
ZSS Send Slower.
ZST Transmit Slips Twice.
ZSU YOUR SIGNALS ARE UNREADABLE.
ZSV Your Speed Varying.

- T -

ZTA Transmit by Auto.
ZTH Transmit by Hand.
ZTI Transmission temporarily Interrupted.

- U -

ZUA Conditions Unsuitable for Automatic recording.
*ZUA Timing signal will be transmitted.
ZUB WE HAVE BEEN UNABLE TO BREAK YOU.
ZUC UNABLE TO COMPLY. WILL DO SO AT _____
*ZUE Affirmative (Yes).
*ZUG Negative (No).
*ZUH Unable to comply.
*ZUJ Wait. Stand by.

- V -

ZVB Varying Bias.
ZVF Signals Varying in Frequency.
ZVP Send V's Please.
*ZVR Pass at once to sub-stations.
ZVS Signals Varying in intensity.

- W -

*ZWB Name of operator on watch.
ZWC Wipers or Clicks here.
ZWO SEND WORDS ONCE.
ZWR YOUR SIGNALS WEAK BUT READABLE.
ZWS Wavelength (frequency) is Swinging, 1-5.
ZWT SEND WORDS TWICE.

- Y -

ZYS WHAT IS YOUR SPEED OF TRANSMISSION?

- Z -

*ZZF Incorrect.
*ZZG You are correct.
*ZZH TRY AGAIN.

MULTIPLEX

ZYA Cease traffic; send A's on A channel.
ZYC Cycling on ARQ, errors stored your end.
ZYK Check Your Keying on channel _____.
ZYM Change from single printer to Multiplex.
ZYN Make bias Neutral.
ZYP Change from multiplex to single Printer.
ZYR Please put _____ on MUX revolutions.
ZYT Check Your Thyratrons.
ZYX/x Revert to MUX frames _____ channels.

RADIOPHOTO AND FACSIMILE

ZXA Adjust to receive speeds _____.
ZXC Pix _____ Conditionally accepted.
ZXD Send Dashes, please.
ZXF You are Floating Fast.
ZXH Limits High, reduce _____ cycles.
ZXJ You are Jumping out of phase.
ZXK Is your synchronizing correct?
ZXL Limits are Low, increase _____ cycles.
ZXO Last run defaced due to _____.
ZXP Go ahead with Pix.
ZXS You are floating Slow.
ZXV Your modulation is Varying.

Sources: Cable and Wireless Ltd.
U. S. Army Communications Manual SIG 439-2.
ACP-131 (A), Allied Commns. Procedures.
W3AFM

FEDERAL COMMUNICATIONS COMMISSION EXAMINATION POINTS

Examinations for commercial and amateur radio operator licenses are conducted at the following F.C.C. field offices on the days designated by the Engineer in Charge of each office.
Specific dates should be obtained from the Engineer in Charge.

OFFICE LOCATION

ALASKA, ANCHORAGE 99510
US POST OFFICE BLDG-ROOM G63
4TH & G STREET, P O BOX 644

CALIFORNIA, LONG BEACH 90807
3711 LONG BEACH BLVD-SUITE 501

CALIFORNIA, SAN DIEGO 92101
1245 7TH AV - FOX THEATRE BLDG

CALIFORNIA, SAN FRANCISCO 94111
323A CUSTOMHOUSE - 555 BATTERY ST

COLORADO, DENVER 80202
1405 CURTIS ST
THE EXECUTIVE TOWER - SUITE 2925

DIST OF COLUMBIA - WASHINGTON, DC 20554
1919 -M- ST NW - ROOM 411

FLORIDA, MIAMI 33130
919 FEDERAL BLDG - 51 SW 1ST AV

FLORIDA, TAMPA 33602
809 BARNETT BK BLDG - 1000 ASHLEY ST

GEORGIA, ATLANTA 30309
440 MASSELL BLDG,1365 PEACHTREE ST NE

GEORGIA, SAVANNAH 31402
238 FEDERAL OFFICE BLDG & COURTHOUSE
125 BULL ST - P O BOX 8004

HAWAII, HONOLULU 96813
7304 PRINCE JONAH KUHIO
KALANIANAOLE BLDG,300 ALA MOANA BLVD

ILLINOIS, CHICAGO 60604
3935 FEDERAL BLDG - 230 S DEARBORN ST

LOUISIANA, NEW ORLEANS 70130
829 F EDWARD HEBERT FEDERAL BLDG
600 SOUTH STREET

MARYLAND, BALTIMORE 21201
GEORGE M FALLON FEDERAL BLDG - ROOM 819
31 HOPKINS PLAZA

MASSACHUSETTS, BOSTON 02109
1600 CUSTOMHOUSE - 165 STATE STREET

MICHIGAN, DETROIT 48226
1054 FEDERAL BLDG & US COURTHOUSE
231 W LAFAYETTE STREET

MINNESOTA, ST PAUL 55101
691 FEDERAL BLDG - 316 N ROBERT STREET

MISSOURI, KANSAS CITY 64106
1703 FEDERAL BLDG - 601 E 12TH STREET

NEW YORK, BUFFALO 14202
1307 FEDERAL BUILDING
111 W HURON ST AT DELAWARE AV

NEW YORK, NEW YORK 10014
201 VARICK STREET

OREGON, PORTLAND 97204
1782 FEDERAL OFFICE BLDG
1220 SW 3RD AV

PENNSYLVANIA, PHILADELPHIA 19106
11425 JAMES A BYRNE FEDERAL COURTHOUSE
601 MARKET STREET

PUERTO RICO, HATO REY 00918
FEDERAL BLDG & COURTHOUSE - ROOM 747
AVENIDA CARLOS CHARDON

TEXAS, BEAUMONT 77701
323 FEDERAL BLDG - 300 WILLOW STREET

TEXAS, DALLAS 75242
EARLE CABELL FEDERAL BLDG - ROOM 13E7
1100 COMMERCE STREET

TEXAS, HOUSTON 77002
5636 FEDERAL BLDG - 515 RUSK AVENUE

VIRGINIA, NORFOLK 23502
MILITARY CIRCLE,870 N MILITARY HIGHWAY

WASHINGTON, SEATTLE 98174
3256 FEDERAL BLDG - 915 2ND AV

SPECIAL ARRL QN SIGNALS FOR NET USE

QNA* Answer in prearranged order.

QNB* Act as relay Between . . . . . and . . . . .

QNC All net stations Copy.
I have a message for all net stations.

QND* Net is Directed (controlled by net control station).

QNE* Entire net please stand by.

QNF Net is Free (not controlled).

QNG Take over as net control station.

QNH Your net frequency is High.

QNI Net stations report In.*
I am reporting into the net.

QNJ Can you copy me? Can you copy . . . . . ?

QNK* Transmit messages for . . . . . to . . . . .

QNL Your net frequency is Low.

QNM* You are QRMing the net. Please stand by.

QNN Net control station is . . . . . *
What station has net control?

QNO Station is leaving the net.

QNP Unable to copy you (or . . . . .).

QNQ* Move frequency to . . . and wait for . . . to finish handling traffic. Then send him traffic for . . . . .

QNR* Answer . . . and Relay (or Receive) traffic.

QNS Following Stations are in the net.* (Follow with list).
Request list of stations in the net.

QNT Leaving net Temporarily (or for . . . minutes).

QNU* The net has traffic for YOU. Stand by.

QNV* Establish contact with . . . . . on this frequency.
If successful, move to . . . and send him traffic for . . .

QNW How do I route messages for . . . . . ?

QNX You are excused from the net.*
Request to be excused from the net.

QNY* Shift to another frequency (or to . . . kc.)
to clear traffic with . . . . .

QNZ Zero beat your signal with mine.

*For use only by Net Control Station

Notes on the Use of QN Signals

1. The QN signals listed above are special ARRL signals for use in amateur c.w.nets only. Other meanings that may be used in other services do not apply.

2. Some QN signals are for use by net control stations only; these are marked with an asterisk (*). Others have slightly different meanings when used by the NCS and net stations; in this case, the meaning when used by the NCS is marked with an asterisk (*

3. Some QN signals have two meanings, the difference depending on how or by whom used. Examples: (a) QNC, when used as a preface to transmission of a message, carries its first meaning; when used by a station reporting into the net (e.g.,W9NCS DE W9NET QNI QNC), it carries its second meaning. (b) QNI, when used by the NCS, is a request for stations to report in; when used by a net station, it means that this station is reporting in. (c) QNJ, when used alone, carries its first meaning; when followed by a call, it carries the second meaning.

4. QN signals are never followed by a question mark, even though the meaning may be interrogatory.

5. Do not use QN signals on phone nets. Say it with words.

6. Use QN signals in nets only. They are not for use in casual amateur conversation.

7. Make frequent use of standard international "Q" signals in traffic nets, for meanings not covered by QN signals. Examples: QRU, QRV, QSV, QTA, QTB, QTX, etc.

ARRL Communications Department

ARRL Adopted ICAO Phonetic Alphabet

(International Civil Aviation Organization)

A	ALFA
B	BRAVO
C	CHARLIE
D	DELTA
E	ECHO
F	FOXTROT
G	GOLF
H	HOTEL
I	INDIA
J	JULIETT
K	KILO
L	LIMA
M	MIKE
N	NOVEMBER
O	OSCAR
P	PAPA
Q	QUEBEC
R	ROMEO
S	SIERRA
T	TANGO
U	UNIFORM
V	VICTOR
W	WHISKEY
X	X-RAY
Y	YANKEE
Z	ZULU

ON GOOD PHONE OPERATING

1. *Listen much . . . with care.* Avoid distractions in your operating room. Tune the band well after each call.

2. *Time your calls; monitor your own frequency.* Call only when a station is free.

3. *Make short calls, with breaks to listen.* Speak clearly, at a steady, modest rate. Three short calls are better than one long one.

4. *Use push-to-talk technique . . . speak near the mike.* Watch the modulation indicator. Keep local background noise at a minimum.

5. *Make notes. Avoid missing points for comment.* Jot down topics to avoid repeats.

6. *Talk in connected thoughts and phrases.* Notes will help avoid mixing up subjects. Push-to-talk technique will keep brother amateurs from calling you a monologuist.

7. *Speak naturally.* QSOs need not be cut and dried. Make them interesting. Avoid exhibitionism. Use proper operating form to promote efficiency in communication and add respect and prestige for your station.

Use of this standard list is recommended by ARRL. Haphazard selection of words often results in confusion. A degree of uniformity in use of phonetic words reflects favorably on your individual operating, and on the whole amateur service.

American Radio Relay League
225 Main Street
Newington, Conn. 06111

DX OPERATING CODE

(For W/VE Amateurs)

Some amateur DXers have caused considerable confusion and QRM in their efforts to work DX stations. The points below, if observed by all W/VE amateurs, will help make DX more enjoyable for all.

1. Call DX only after he calls CQ, QRZ? or signs SK, or 'phone equivalents thereof. Make your calls short.

2. Do not call a DX station:
   a. On the frequency of the station he is calling until you are sure the QSO is over (SK).
   b. Because you hear someone else calling him.
   c. When he signs KN, AR or CL.
   d. Exactly on his frequency.
   e. After he calls a directional CQ, unless of course you are in the right direction or area.

3. Keep within frequency band limits. Some DX stations can get away with working outside, but you cannot.

4. Observe calling instructions given by DX stations. Example: "15U" means "call 15 kc. up from my frequency". "15D" means down, etc.

5. Give honest reports. Many DX stations depend on W/VE reports for adjustment of station and equipment.

6. Keep your signal clean. Key clicks, ripple, feedback or splatter give you a bad reputation and may get you a citation from FCC.

7. Listen and call the station you want. Calling CQ DX is not the best assurance that the rare DX will reply.

8. When there are several W or VE stations waiting, avoid asking DX to "listen for a friend". Also avoid engaging him in a rag chew against his wishes.

(For Overseas Amateurs)

To all overseas amateur stations:

In their eagerness to work you, many W and VE amateurs resort to practices which cause confusion and QRM. Most of this is good-intentioned but ill-advised; some of it is intentional and selfish. The key to the cessation of unethical DX operating practices is in your hands. We believe that your adoption of certain operating habits will increase your enjoyment of amateur radio and that of amateurs on this side who are eager to work you. We recommend your adoption of the following principles:

1. Do not answer calls on your own frequency.

2. Answer calls from W/VE stations only when their signals are of good quality.

3. Refuse to answer calls from other stations when you are already in contact with someone, and do not acknowledge calls from amateurs who indicate they wish to be "next".

4. Give everybody a break. When many W/VE amateurs are patiently and quietly waiting to work you, avoid complying with requests to "listen for a friend".

5. Tell listeners where to call you by indicating how many kilocycles up (U) or down (D) from your frequency you are listening. Examples: c.w. - "CQ DX CQ DX CQ DX 15U DE AC4YN AC4YN AC4YN 15U K"; 'phone - "Answer 15 kilocycles up from my frequency".

6. Use the ARRL-recommended ending signals, especially KN, to indicate to impatient listeners the status of the QSO. (KN means "Go ahead (specific station), all others keep out".

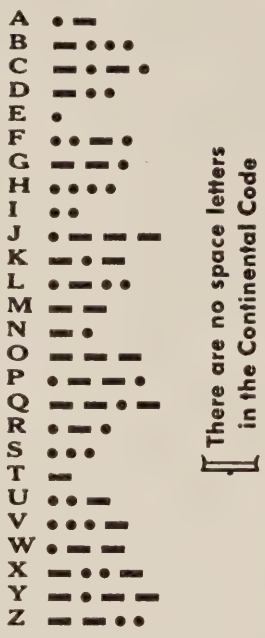
7. Let it be known that you avoid working amateurs who are constant violators of the above principles.

ARRL Communications Department

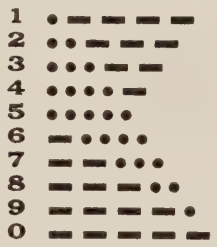
TELEGRAPH CODES

CONTINENTAL CODE

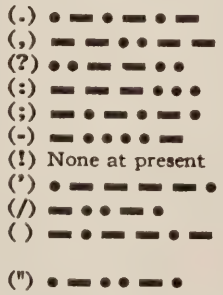
Used in ham radio



Figures

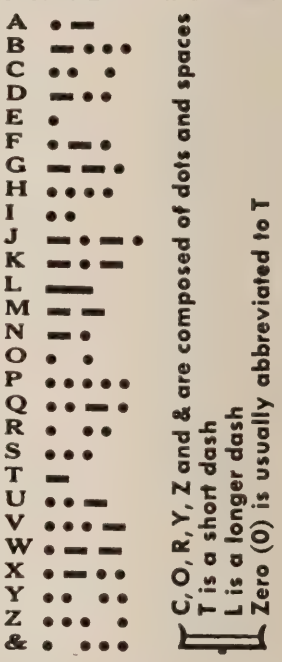


Punctuation

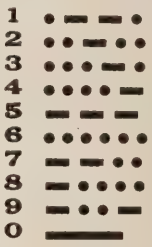


MORSE CODE

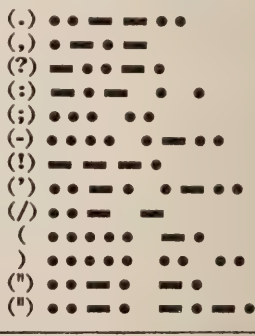
Used on land lines in United States and Canada



Figures



Punctuation



EMERGENCY SIGNAL

In a dire emergency situation, use SOS by code, MAYDAY by voice.

INTERNATIONAL POSTAL RATES

THESE ARE THE POSTAL RATES IN EFFECT AT PRESS TIME OF THIS ISSUE.

	U.S. and Possessions Canada Mexico	Central America Columbia Venezuela Caribbean	So. America Europe Africa Asia Oceania
Surface postcard (QSL)	9¢	12¢	12¢
Surface letter (1 ounce)	13¢	18¢*	18¢*
Additional ounces up to 13 oz.	11¢		
Air postcard (QSL)	14¢	21¢	21¢
Air letter (1 ounce)	17¢	25¢**	31¢***
Additional ounces up to 9 oz.	15¢	(each ½ oz.)	(each ½ oz.)
Aerogramme	22¢	22¢	22¢

*Over 1 up to 2 oz. 31¢, over 2 up to 4 oz. 41¢, over 4 up to 8 oz. 82¢, over 8 oz. up to 1 lb. $1.58, over 1 lb. up to 2 lbs. $2.75 over 2 lbs. up to 4 lbs. $4.46.

**Over 2 oz. 21¢ each additional half ounce.

***Over 2 oz. 26¢ each additional half ounce.

INTERNATIONAL REPLY COUPONS (IRC's) of United States issue may be purchased at U.S. postoffices for 42¢ each. Each coupon is exchangeable at a post office in any country for a stamp or stamps representing the international postage on a single rate surface letter. Below are listed the number of IRC's required to prepay an air mail letter of the first weight unit from the countries indicated to the United States.

Afghanistan	5
Aland Is. (Finland)	2
Albania	4
Algeria	2
Andorra	2
Angola (Portugal)	3
Argentina	3
Ascension Is. (Great Britain)	3
Australia	4
Austria	2
Azores Is. (Portugal)	2
Bahama Is. (Great Britain)	2
Balearic Is. (Spain)	2
Bangladesh	2
Barbados Is. (West Indies)	3
Belgium	2
Belize	2
Bermuda Is	2
Bhutan	
Bolivia	2
Botswana	5
Brazil	2
Brunei	8
Bulgaria	3
Burma	4
Burundi	3
Cambodia/Khmer Republic	3
Cameroon	2
Canada	2
Canary Is. (Spain)	2
Cape Verde Is. (Portugal)	3
Cayman Is. (West Indies)	3
Central African Republic	2
Chad	2
Chile	
China (Taiwan)	3
China (Mainland)	3
Colombia	3
Comoro Is. (France)	3
Congo (Brazzaville)	2
Cook Is. (New Zealand)	3
Corsica (France)	2
Costa Rica	2
Cuba	4
Cyprus	4
Czechoslovakia	2
Dahomey	2
Denmark	2
Dominican Republic	2
Ecuador	3
Egypt (United Arab Republic)	2
El Salvador	2
Ethiopia	3
Faeroe Is. (Denmark)	2
Falkland Is. (Great Britain)	3
Fiji Is. (Great Britain)	4
Finland	2
France	2
French Polynesia Is	2
French Somaliland(Afars and Issas)	2
Gabon Republic	2
Gambia	4
Germany, Western Zone	2
Germany, Eastern Zone	2
Ghana	3
Gibralter (Great Britain)	2
Gilbert and Ellice Is	5
Great Britain	2
Greece (incl. Crete)	2
Greenland (Denmark)	2
Grenada & Grenadines	4
Guadaloupe Is	2
Guatemala	2
Guiana, French	2
Guinea, Portuguese	2
Guinea, Republic of	2
Guyana	4
Haiti	5
Honduras, Republic of	3
Hong Kong	5
Hungary	2
Iceland	2
India	3
Indonesia	3
Iran	4
Iraq	3
Ireland (Eire)	3
Israel	3
Italy	2
Ivory Coast	2
Jamaica	
Japan	2
Jordan	3
Kenya	4
Korea	3
Kuwait	4
Laos	
Lebanon	3
Leeward Is.(West Indies)	3
Lesotho	5
Liberia	5
Libya	2
Liechtenstein	2
Luxembourg	2
Macao (Portugal)	3
Madeira Is. (Portugal)	2
Malagasy Republic (Madagascar)	3
Malawi	6
Malaysia	5
Maldive Is	5
Mali Republic	2
Malta (Great Britain)	2
Martinique (France)	2
Mauritania	2
Mauritius (Great Britain)	3
Mexico	2
Morocco	2
Mozambique (Portugal)	3
Nauru Is	4
Nepal	5
Netherlands	2
Netherlands Antilles	2
New Caledonia (France)	2
New Hebrides Is	2
New Zealand	3
Nicaragua	4
Niger	2
Nigeria	3
Northern Ireland	2
Norway	2
Oman, Sultanate of	4
Pakistan	2
Panama	2
Papua New Guinea	3
Paraguay	3
Persian Gulf Ports	4
Peru	3
Philippines	3
Pitcairn Is. (Great Britain)	
Poland	2
Portugal	2
Qatar	4
Reunion Is. (France)	2
Rhodesia	5
Romania	3
Rwanda	2
Ryukyu Is	
St. Helena Is. (Great Britain)	3
St. Pierre and Miquelon Is.(France	2
Samoa, Western (Great Britain)	4
Saudi Arabia	3
Senegal	2
Seychelles Is.(Great Britain)	3
Sierra Leone	3
Solomon Is. (Great Britain)	5
Somalia	
South Africa	5
South-West Africa (Namibia)	5
South Yemen	5
Spain	2
Spanish West Africa	2
Sri Lanka (Ceylon)	5
Sudan	3
Surinam	1
Swaziland	5
Sweden	2
Switzerland	2
Syria	3
Tanzania	4
Tasmania (Australia)	4
Thailand	3
Timor (Portugal)	4
Togo	2
Tonga Is. (Great Britain)	3
Trinidad and Tobago Is.(Britain)	2
Tristan de Cunha & Gough Is	3
Tunisia	2
Turkey	3
Turks & Caicos Is.(Great Britain)	2
Uganda	4
United Arab Emirates	4
U. S. S. R.	
Upper Volta	2
Uruguay	2
Vatican City	2
Venezuela	2
Vietnam	2
Virgin Is. (Great Britain)	2
West Irian (Indonesia)	3
Windward Is. (West Indies)	2
Yemen	
Yugoslavia	3
Zaire, Rep. of	2
Zambia	2
Zanzibar	4

WORLD TIME CONVERSION CHART IN HOURS

Greenwich Meridian Time. London, England.	Central Europe. Berlin, Geneva, Stockholm, Vienna.	Eastern Europe. Athens, Cape Town, Cairo, Moscow	Arabia, Armenia, Ethiopia, Madagascar.	Mauritius, Iran. Reunion Island.	Central Russia, Bombay, India.	Calcutta, Novosibirsk Russia, Tibet.	Sumatra. Thailand, Laos.	Philippines. Perth, Australia	Central Australia. Tokyo, Japan.	Eastern Australia. Melbourne, Sydney.	New Caledonia.	International Date Line. New Zealand. Fiji Islands.	Nome, Alaska. Samoa Islands.	Hawaii. Midway Islands.	Eastern Alaska. Dawson	Pacific Standard Time. Los Angeles, Seattle, Juneau.	Mountain Standard Time. Calgary, Denver, Phoenix.	Central Standard Time. Chicago, Costa Rica.	Eastern Standard Time. Montreal, New York, Peru.	Atlantic Standard Time. Argentina, Nova Scotia.	Greenland. Rio de Janeiro, Brazil.	Azores.	Iceland. Canary Islands.
0000	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM
0100	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night
0200	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM
0300	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM
0400	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM
0500	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM
0600	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM
0700	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM
0800	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM
0900	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM
1000	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM
1100	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM
1200	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM
1300	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon
1400	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM
1500	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM
1600	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM
1700	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM
1800	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM
1900	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM
2000	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM
2100	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM
2200	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM
2300	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM

With this chart you can convert standard time in any time zone to GMT or tell what time it is in other parts of the world. To correctly use this chart visualize each horizontal line as a complete circle. From your time zone tracing horizontally to the right (Counter Clockwise) it will be tomorrow when you pass midnight and yesterday when you pass the International date line. To the left (Clockwise) it will be yesterday when you pass midnight and tomorrow when you pass the International date line. There is no change in date when you pass both midnight and the International date line going in one direction. For instance at 8 PM in New York Eastern Standard Time it is 2 AM tomorrow in Berlin, Germany and 11 AM tomorrow in Sydney, Australia. Always trace in the shortest direction from your time zone to find what time it is in any other zone.

CENSUS OF AMATEUR RADIO LICENSES* in the U.S.A.

by classes, within states and call areas

Call Area	State	Novice	Tech-nician	Con-ditional	General	Advanced	Extra	Club	Military	Repeaters	State totals	YL's (Included in state totals
#1	Conn.	1,104	857	392	1,632	1,222	443	105	7	77	5,839	298
	Maine	314	183	299	492	378	133	17	5	27	1,848	108
	Mass.	1,669	2,614	288	3,331	2,297	709	152	16	122	11,198	575
	N.H.	331	452	116	598	455	125	22	2	25	2,126	147
	R.I.	193	479	51	458	279	94	26	6	19	1,605	85
	Vermont	102	109	114	228	183	52	14	0	6	808	49
		3,713	4,694	1,260	6,739	4,814	1,556	336	36	276	23,424	1,262
#2	N.J.	1,727	3,067	185	3,779	3,056	962	288	5	131	13,200	517
	N.Y.	4,053	5,210	408	6,887	5,548	1,473	352	19	270	24,220	1,192
		5,780	8,277	593	10,666	8,604	2,435	640	24	401	37,420	1,709
#3	Delaware	146	151	25	238	162	55	10	3	10	800	36
	D.C.	45	40	15	125	108	59	14	5	2	413	11
	Md.	1,021	1,002	159	1,838	1,808	560	88	16	62	6,554	289
	Pa.	2,728	3,399	401	4,817	3,505	997	211	24	190	16,272	828
		3,940	4,592	600	7,018	5,583	1,671	323	48	264	24,039	1,164
#4	Alabama	940	1,019	371	1,211	962	228	35	11	86	4,863	347
	Florida	2,739	3,112	1,064	4,531	3,999	920	114	13	190	16,682	1,071
	Georgia	1,101	1,029	445	1,486	1,197	311	57	10	72	5,708	319
	Ky.	943	801	266	877	675	162	35	3	64	3,826	269
	N.C.	1,227	1,062	508	1,700	1,397	319	64	7	98	6,382	369
	S.C.	548	401	493	672	555	169	63	7	34	2,942	171
	Tenn.	1,342	1,493	345	1,442	1,379	298	57	5	108	6,469	390
	Va.	1,208	1,065	421	2,037	1,857	625	53	22	67	7,355	318
		10,048	9,982	3,913	13,956	12,021	3,032	478	78	719	54,227	3,254
#5	Ark.	445	482	224	603	544	143	36	2	44	2,523	174
	La.	743	660	357	1,075	906	231	59	8	47	4,086	242
	Miss.	454	381	206	542	469	99	8	3	46	2,208	120
	N.M.	254	300	301	485	496	168	15	5	33	2,057	124
	Okla.	772	864	250	1,019	994	211	42	9	61	4,222	291
	Texas	3,157	3,599	1,612	5,089	4,423	1,085	163	20	298	19,446	1,329
		5,825	6,286	2,950	8,813	7,832	1,937	323	47	529	34,542	2,280
#6	Calif.	5,775	9,788	1,981	12,847	12,148	2,797	593	55	679	46,663	2,597
#7	Ariz.	667	1,047	367	1,236	1,357	298	46	6	67	5,091	347
	Idaho	310	195	246	295	323	79	18	0	19	1,485	91
	Montana	254	72	298	263	260	72	19	0	16	1,254	80
	Nevada	150	197	229	301	273	89	20	2	34	1,295	78
	Oregon	960	698	483	1,573	1,303	299	61	6	53	5,436	355
	Utah	331	364	98	450	452	104	21	6	32	1,858	105
	Wash.	1,319	1,285	683	2,486	2,213	601	83	16	116	8,802	598
	Wyoming	123	67	137	156	123	34	10	1	16	667	46
		4,114	3,925	2,541	6,760	6,304	1,576	278	37	353	25,888	1,700
#8	Mich.	2,518	2,619	532	3,796	2,688	536	119	11	135	12,954	694
	Ohio	3,739	5,043	351	5,077	3,589	747	209	9	244	19,008	1,085
	W.Va.	656	438	92	633	406	116	22	5	36	2,404	163
		6,913	8,100	975	9,506	6,683	1,399	350	25	415	34,366	1,942
#9	Illinois	2,844	3,608	837	4,589	3,408	770	262	8	152	16,478	859
	Indiana	1,786	2,038	262	2,154	1,574	346	119	6	83	8,368	523
	Wisc.	1,171	921	435	1,707	1,372	279	77	6	85	6,053	289
		5,801	6,567	1,534	8,450	6,354	1,395	458	20	320	30,899	1,671
#10	Colo.	935	775	362	1,401	1,203	310	42	9	97	5,134	346
	Iowa	926	627	272	1,357	1,180	210	75	6	60	4,713	272
	Kansas	922	510	456	1,122	877	216	41	8	60	4,212	291
	Minn.	1,084	758	494	1,672	1,403	388	86	2	68	5.955	265
	Mo.	1,362	1,120	461	1,924	1,560	400	100	6	89	7,022	428
	Nebr.	528	380	265	722	600	92	38	3	37	2,665	159
	N.D.	190	39	253	191	147	26	11	1	10	868	58
	S.D.	222	94	138	259	232	51	15	1	20	1,032	88
		6,169	4,303	2,701	8,648	7,202	1,693	408	36	441	31,601	1,907
KH6	Hawaii	215	189	128	434	468	131	21	24	16	1,626	71
KL7	Alaska	247	122	94	384	328	108	11	35	15	1,344	115
KP4	Puerto Rico	254	423	41	231	236	64	13	7	18	1,287	57
Grand total 50 states, D.C. and Puerto Rico		58,794	67,248	19,311	94,452	78,577	19,794	4,232	472	4,446	347,326	19,729

* From the 1978 Radio Amateur Callbook.

CENSUS OF AMATEUR RADIO LICENSES OF THE WORLD*

PREFIX	COUNTRY	NUMBER OF RADIO AMATEUR LICENSES LISTED
AC3	SIKKIM	1
AP	PAKISTAN	48
AP,S2	BANGLADESH	10
A2	BOTSWANA	36
A4X	SULTANATE OF OMAN	24
A6X	UNITED ARAB EMIRATES	1
A7X	QATAR	1
A9X	BAHRAIN	23
A35	TONGA	4
A51	BHUTAN	3
BV2	TAIWAN (FORMOSA)	2
CE	CHILE	2,772
CM,CO	CUBA	449
CN	MOROCCO	104
CP	BOLIVIA	1,148
CR9	MACAO	2
CT1	PORTUGAL	827
CT2	AZORES IS	26
CT3	MADEIRA IS	36
CX	URUGUAY	2,753
C5A	THE GAMBIA	20
C6A	BAHAMA IS	39
C21	REPUBLIC OF NAURU	8
C31	ANDORRA	81
DA-DL	FED REP OF GERMANY	30,854
DM	E GERMAN DEMOCRATIC REP	3,308
DU	PHILIPPINES	539
D2A	ANGOLA	9
D4C	REP OF CAPE VERDI	3
D6	STATE OF COMORO	1
EA	SPAIN	3,508
EA6	BALEARIC IS	94
EA8	CANARY IS	345
EA9	SPANISH SAHARA,IFNI, CEUTA Y MELILLA	37
EI	IRELAND	529
EL,5L	LIBERIA	87
EP,9D5	IRAN	81
F	FRANCE	9,365
FB8	AMSTERDAM,ST PAUL,CROZET, KERGUELEN,TROMELIN IS	16
FC	CORSICA	52
FG7	GUADELOUPE	46
FH8	MAYOTTE	2
FK8	NEW CALEDONIA	49
FM7	MARTINIQUE	50
FO8	FRENCH POLYNESIA	71
FP8	ST. PIERRE & MIQUELON IS	30
FR7	REUNION IS	48
FY7	FRENCH GUIANA	32
G	ENGLAND	20,538
GD	ISLE OF MAN	53
GI	NORTHERN IRELAND	453
GJ	JERSEY	57
GM	SCOTLAND	1,318
GU	BAILIWICK OF GUERNSEY	61
GW	WALES	973
HA,HG	HUNGARY	692
HB	SWITZERLAND	2,022
HBØ	LIECHTENSTEIN	6
HC	ECUADOR	787
HC8	GALAPAGOS IS	7
HH	HAITI	2
HI	DOMINICAN REPUBLIC	1,237
HK	COLOMBIA	2,945
HKØ	BAJO NUEVO IS	1
HKØ	MALPELO IS	1
HKØ	S ANDRES,PROVIDENCIA IS	26
HM,HL	KOREA	181
HP	PANAMA	474
HR	HONDURAS	226
HS	THAILAND	81
HV	VATICAN CITY	2
HZ-7Z	SAUDI ARABIA	7
I	ITALY	11,458
IA5	TUSCAN ARCHIPELAGO	8
IC8	CAPRI & ISCHIA IS	33
IE9	USTICA IS	2
IF9	LEVANZO IS	1
IG9	LAMPEDUSA IS	6
IH9	PANTELLERIA IS	2
IMØ	MADDALENA IS	1
IS	SARDINIA	279
IT	SICILY	648
JA-JR	JAPAN	19,883
JD1	OGASAWARA	251
JT1	MONGOLIA	23
JW	SVALBARD IS	6
JX	JAN MAYEN IS	11
JY	JORDAN	81
J28	REPUBLIC OF DJIBOUTI	26
K,W	U.S.A.(48 STATES)	343,668
KA	U.S.PERSONNEL IN JAPAN	106
KB6	BAKER,CANTON,ENDERBURY, HOWLAND & PHOENIX IS	4
KC4	NAVASSA IS	2
KC4AA,US	ANTARCTICA	15
KC6	CAROLINE IS	23
KG4	GUANTANAMO BAY,CUBA	28
KG6	MARIANA IS	223
KH6	HAWAII	1,626
KJ6	JOHNSTON IS	10
KL7	ALASKA	1,344
KM6	MIDWAY IS	5
KP4	PUERTO RICO	1,287
KP6	JARVIS & PALMYRA IS	5
KS6	AMERICAN SAMOA	32
KV4	VIRGIN IS	120
KW6	WAKE IS	9
KX6	MARSHALL IS	38
KZ5	CANAL ZONE	134
LA-LJ	NORWAY	4,142
LU	ARGENTINA	21,835
LX	LUXEMBOURG	149
LZ	BULGARIA	719
M1	SAN MARINO	6
OA	PERU	1,699
OD5	LEBANON	144
OE	AUSTRIA	2,508
OH	FINLAND	3,037
OHØ	ALAND IS	26
OJØ,OHØM	MARKET REEF	2
OK,OL	CZECHOSLOVAKIA	3,055
ON	BELGIUM	2,325
OX	GREENLAND	84
OY	FAEROES IS	83
OZ	DENMARK	3,842
PA,PE,PI	NETHERLANDS	5,421
PJ	NETHERLANDS ANTILLES	152
PP,PY	BRAZIL	15,978
PYØ	FERNANDO DE NORONHA IS	14
PYØ	TRINDADE & MARTIM VAZ	1
PZ	SURINAM	53
P29	PAPUA NEW GUINEA	88
SJ-SM	SWEDEN	6,897
SP	POLAND	6,060
ST	SUDAN	2
SU	EGYPT	8
SV	GREECE,CRETE	214
S79	REPUBLIC OF SEYCHELLES	23
S8	TRANSKEI	8
S9	PRINCIPE & SAO TOME IS	1
TA,TC	TURKEY	27
TF	ICELAND	68
TG	GUATEMALA	339
TI	COSTA RICA	771
TI9	COCOS IS	5
TJ	CAMEROON	20
TR8	GABON	24
TT8	CHAD	4
TU2	IVORY COAST	98
TY	PEOPLE'S REP OF BENIN	1
U	SOVIET UNION	17,020
VE	CANADA	17,388
VK	AUSTRALIA	7,651
VO1	NEWFOUNDLAND	345
VO2	LABRADOR	41
VP1	BELIZE(BRITISH HONDURAS)	55
VP2	LEEWARD-WINDWARD IS	246
VP5	TURKS & CAICOS IS	83
VP8	FALKLAND,SOUTH GEORGIA, S ORKNEY,SOUTH SANDWICH, SOUTH SHETLAND IS	1
VP9	BERMUDA	69
VR1	BRITISH PHOENIX,GILBERT, OCEAN IS	10
VR3	NORTHERN LINE IS	8
VR4	SOLOMON IS	24
VR6	PITCAIRN IS	1
VR7	CNTRL & SOUTHERN LINE IS	2
VR8	TUVALU IS	5
VS5	BRUNEI	11
VS6	HONG KONG	47
VU	INDIA	905
W,K	U.S.A. (SEE K,W)	
XE,XF	MEXICO	1,423
XT2	VOLTAIC REPUBLIC	12
XZ	BURMA	16
YB-JD	INDONESIA	1,883
YJ	NEW HEBRIDES	13
YK	SYRIA	10
YN	NICARAGUA	342
YO	ROMANIA	1,634
YS	EL SALVADOR	265
YU	YUGOSLAVIA	3,110
YV	VENEZUELA	9,082
ZB2	GIBRALTAR	12
ZD7	SAINT HELENA	4
ZD8	ASCENSION IS	22
ZD9	TRISTAN DA CUNHA, & GOUGH IS	5
ZE	RHODESIA	159
ZF1	CAYMAN IS	44
ZK1	COOK IS	32
ZK2	NIUE IS	3
ZL	NEW ZEALAND	5,092
ZP	PARAGUAY	632
ZR,ZS	SOUTH AFRICA	3,017
ZR,ZS3	SOUTH-WEST AFRICA	66
3A	MONACO	34
3B6	AGALEGA	2
3B7	ST. BRANDON	1
3B8	MAURITIUS IS	30
3B9	RODRIGUES	1
3D2	FIJI IS	27
3D6	SWAZILAND	26
3V8	TUNISIA	2
4S7	SRI LANKA (CEYLON)	74
4U	UNITED NATIONS,GENEVA	1
4W1,3	YEMEN	1
4X4,4Z4	ISRAEL	793
5B4,ZC4	CYPRUS	125
5H3	TANZANIA	5
5N2	NIGERIA	7
5R8	MADAGASCAR	5
5T5	MAURITANIA	7
5U7	NIGER	10
5V	TOGO	8
5W1	WESTERN SAMOA	17
5X5	UGANDA	2
5Z4	KENYA	75
6W8	SENEGAL	74
6Y5	JAMAICA	89
7JI	OKINO-TORI-SHIMA	1
7P8	LESOTHO	13
7Q7	MALAWI	13
7X	ALGERIA	66
8P6	BARBADOS IS	130
8Q6,VS9	MALDIVE IS	1
8R	GUYANA	30
9G1	GHANA	58
9H1,5	MALTA	93
9H4	GOZO (MALTA)	12
9I,9J	ZAMBIA	41
9K2	KUWAIT	118
9L	SIERRA LEONE	11
9M2	WEST MALAYSIA	110
9M6	SABAH	9
9M8	SARAWAK	9
9N1	NEPAL	1
9Q5	REPUBLIC OF ZAIRE	19
9U5	BURUNDI	6
9V1	REP OF SINGAPORE	43
9X	RWANDA	24
9Y4	TRINIDAD & TOBAGO IS	101

*FROM THE 1978 RADIO AMATEUR CALLBOOKS. ABSENCE OF PREFIX AND COUNTRY INDICATES EITHER THAT NO LICENSES HAVE BEEN ISSUED OR HAVE NOT BEEN OBTAINABLE FROM OFFICIAL SOURCES.

TELEGRAPHERS' ABBREVIATIONS IN CURRENT USE

‿ denotes short space, as in American Morse o, e‿e; c, t‿e; &, e‿s.
‾ denotes letters sent together, as in a‾r, sent .-.-.

- A -

aa..... all after
ab all before
abl able
abt..... about
ads,adr address
adv advise
af..... Africa
aftmn afternoon
agn again
ahd..... ahead
alng along
am amplitude modulation
ani..... any
anr another
ant antenna
app..... appreciate
a‾r end of message
a‾s,a‾s m wait, wait a minute
a‾u..... fractions follow
aw auf wiedersehn (Ger), see you later

- B -

b..... be
b4 before
balun balanced-to-unbalanced
bc,bcl..... broadcast, broadcast listener
bcnu be seeing you
bd buenos dias (Sp), bad
bda..... birthday
b‾e‾e,bo,bth both, as in "u5 b‾e‾e", up both (Morse)
bfo beat frequency oscillator
bjr..... bon jour (Fr)
bk,bkg back,break,black,book,breaking
bkr breaker,circuit-breaker
bn..... been,brown,between,buenas noches (Sp)
bq answer to rq (request)
brg,bmg bearing,heading
bsr..... bon soir (Fr)
btr better
buk book

- C -

c..... yes
cd card,could
cd,cud,cdnt could,couldn't
cfm,cfmg..... confirm,confirming
ck check
ckt,cct circuit
cl,clg..... call,calling,closed
clbk callbook
clix clicks
clr..... clear
cndx,condx,cdx conditions
cnt,cnti,cnty count, county
cnvn..... convention
coz,cos,cuz,becuz because
cpi copy
cq..... general call to all stations
cs call sign,call letters
cua,cuagn see you again
cul..... see you later
cum,cm,cmg come,coming
cupla a couple of
cw..... continuous wave,manual keying

- D -

da..... day
dbl double
dcn direction
dct..... direct
de from
df direction finder
dif,diff..... difference
dlr,dld dealer,deliver,delivered
dn,d down (in frequency)
dnt,dmi..... do not, don't mention it
dpe dope,information
dr dear
ds..... thanks,danke schon (Ger)
dsnt does not
dsw goodbye,do svidaniya (Russian)
dunno..... don't know
dx distance, or rare station
dxpdn dx expedition

- E -

e‿e‿m..... old man
eh ?
el,els antenna element(s)
em..... them
eni,enibdi,enihw any,anybody,anyhow
ere here
e‾s,es..... and (from Morse "&")
eta estimated time of arrival
etd estimated time of departure
eu..... Europe

- F -

fb,vfb..... fine business,good (enthusiastic approval)
fd field day,feed,food
fer..... for
fiver QSA-5
fld field,filed
flr..... floor
fm,frm from,frequency modulation
fnd friend, find, found
fni..... funny
foxes teleprinter test tapes
freq,fq frequency
fwd..... forward
fyi for your information

- G -

ga..... good afternoon,go ahead
gb good bye
gd good day, good
ges,gess..... guess
gg going
gl good luck

- G - (Cont.)

gld..... glad
gn,gng gone,green,going
gnd ground
gotta..... got to,have to,must
gp ground plane,group (word)
grs groups (as in msg code groups)
gud..... good
gtgs greetings
gv,gvg give,giving

- H -

hd,hrd..... had,hard,heard
hdg heading,antenna azimuth
hed he would
hi..... high, laughter, (sometimes: !)
hlo hello
hlv hasta la vista (Sp),see you later
hpe,hpg..... hope,hoping
hpi happy
hpn,wa hpn happen,what happened
hq,hdqtrs..... headquarters
hr,hrg,hrs here,hear,hour,hearing,here is,hours
hv,hvnt,hvg have,haven't,having
hvi..... heavy
hw,hws how? how is?

- I -

i?..... ready? here goes the tape
id I would
i‾e clear? (response: i-go, e-wait)
im..... I'm,him,intermodulation
i‾m‾l ?
info information
irpt..... I repeat

- K -

k..... go ahead,end of transmission
k‾a beginning of transmission (formal)
klix clicks
klvb..... que (ke) le vaya bien (Sp)
"That it goes well with you"
kn go ahead, but only the station(s) called, I will answer no other calls,known
knw know

- L -

lkg..... looking
ll landline,telephone or telegraph
lng long
lotsa..... lots of
lp long path (long way around earth)
lsn listen
ltr..... letter,later
lv,lvg leave,leaving
lw long wave,"lone wolf" (independent DXer)

- M -

mag,rag..... magazine
mci,mci bcp merci, merci beaucoup (Fr), thanks
mgr manager
mi..... my
mil,mill,ma milliampere,typewriter
min minute,minimum
mk..... mark (opposite of space)
ml,mlg mail,mailing
mng morning,meaning
mni..... many
mnl manual
mo moment
msg..... message

- N -

n..... no
nd nothing doing
ng no good
nil..... nothing
nlr lazy "nil"
nm nothing more,no more
nn..... noon
no know
nr near,number
nvr..... never
nw now

- O -

ob,e‿eb..... old boy
oc old chap
ok,e‿ek all correct
ol..... old lady
om,e‿em old man
op,opr operator
opn,opg..... operation,operating
ot old timer

- P -

pa..... power amplifier
pbl,pbli probable,preamble,probably
pctcs practices
pd..... period,paid
pdc pure dc,clean note
pkg package,parking
plsr..... pleasure
pogn propagation
ppl people
prtbl..... portable
pse,pls,psd please,pleased
psbl,psbli possible, possibly
psn,posn..... position
pt,ptd,ptg point,part,pointed,pointing
pwr power

- Q -

qhm..... tuning from high frequency to middle of band
qlf try sending with left foot awhile
qlm tuning from low frequency to middle of band
qlz..... operator too lazy
qmh tuning from middle frequency to high frequency
qml tuning from middle frequency to low frequency
qmt..... try mailing your tfc
qmn man-made electrical noise
qsl mail card confirming qso
qsll..... send card after receiving mine
qst of interest to all amateurs

- R -

r..... received
rac rectified ac
rc rag chew
rcd,recd..... received
rcr,recr,rcvr,rx receiver
rd read (copy),red
rdi,rdy..... ready
rdo radio,radio station
re concerning
reg,regs..... regular,regulations
rito righto
rm room
rng..... running
rockbound,rockbnd crystal controlled, no vfo
rpt report,repeat
rq..... request
rst readability 1-5,strength 1-9,tone 1-9

- S -

sa,sez,sed,sa..... say,says,said,South America
sae self-addressed envelope
sase self-addressed stamped envelope
sb,ssb..... single sideband
sgd signed
shd,shud,shudn't should,shouldn't
sig,sigs..... signal(s),signature
simo simultaneously
sked schedule
sl..... see you later
sn soon,seen,signal/noise
sp short path (the closer great-circle path)
sri..... sorry
ss sweepstakes
ssn season,as in "ssns gtgs"
stn..... station
su I'll see you
sum some
sumbdi..... somebody
svc service
svl several
sw..... switch,short wave
s‾x dollar sign "$"

- T -

tbl,trbl..... trouble
tfc traffic,messages
thr there,their
tmw..... tomorrow
tng tuning,thing
tnk think
tnsmsn..... transmission
tr transit,position,there,transmit/receive
T/R transmit/receive
trix..... tricks
tt,tts that,that is
tu,tku,tnx,tks thank you, thanks
tv,tvi..... television,television interference
twx telegram
tx,trans transmitter

- U -

u,up..... you,upward in frequency
ufb vfb,very fine business (Rus)
uk United Kingdom
ul,ud..... you will,you would
undld undelivered
unhrd unheard
ur,urs..... your,yours
ut universal time,GMT,"Zebra" time

- V -

v‾a..... signing off (same as sk)
vert vertical
vfb very fine business
vfo..... variable-frequency oscillator
vjo viejo (Sp),old man
vox voice-operated switch
vy,vri..... very
vxo variable crystal oscillator

- W -

w,wt..... watt
wa word after
wat,watsa what,what do you say?
wb..... word before
wd word,would
w‾e‾e who?
wed..... we would
wh white
wid with
wilco..... will comply,will do
wk,wkg week, weak, work, working, QSOing
wri worry
wx,wea..... weather

- X -

xtl..... crystal
xtr,xmtr transmitter
xq fill, or repeat of unreceived copy

- Y -

yda..... yesterday
yl,xyl young lady,married young lady
yr year,your

- Z -

z Greenwich Mean Time, UT, "zebra"
zedder New Zealander
zi zone of the interior (continental USA)
zilch..... nothing

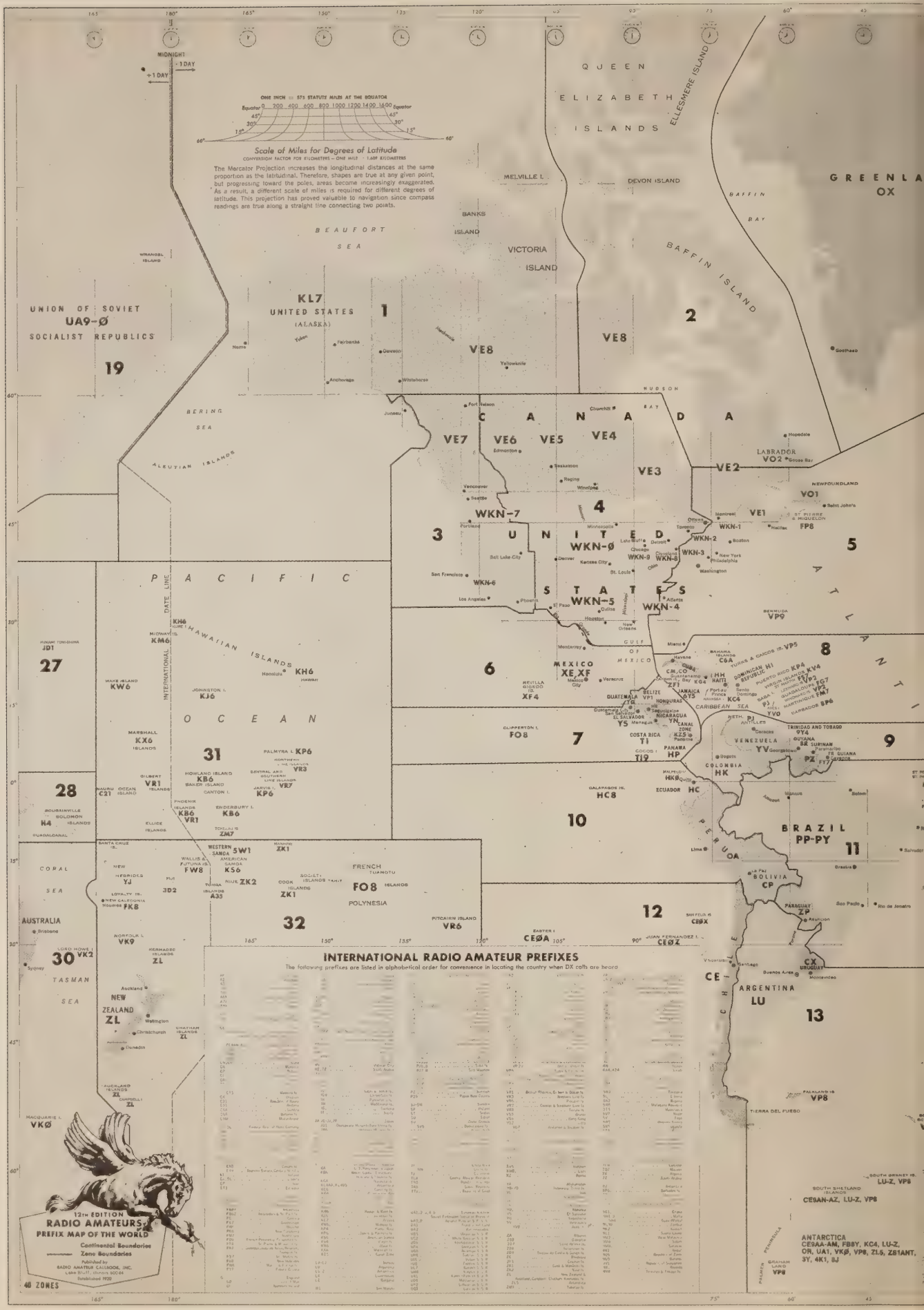
NUMBER CODE:

	1 - a		6 - 6
	2 - u		7 - b
	3 - v		8 - d
	4 - 4		9 - n
	5 - e		0 - t

73..... best wishes
88 love and kisses
99 (rare) keep out

W3AFM

RADIO AMATEURS PREFIX



MAP OF THE WORLD

PREFIXES-BY COUNTRIES

The following countries listed in alphabetical order by country show international radio amateur prefixes. Characters in ( ) designate the continent and zone in which the country is located. Abbreviations are as follows: A—Asia, AF—Africa, E—Europe, NA—North America, O—Oceania, SA—South America.

ARRL SAFETY CODE

1. KILL ALL POWER CIRCUITS COMPLETELY BEFORE TOUCHING ANYTHING BEHIND THE PANEL OR INSIDE THE CHASSIS OR THE ENCLOSURE.

2. Never allow anyone else to switch the power on and off for you while you're working on equipment.

3. Don't shoot trouble in a transmitter when you're tired or sleepy.

4. Never adjust variable links by hand. Use special care when checking energized tank circuits with absorption-type wavemeters.

5. Avoid bodily contact with grounded metal (racks, radiators) or damp floors when working on the transmitter.

6. Never wear phones while working on gear.

7. Follow the rule of keeping one hand in your pocket.

8. Instruct members of your household HOW to turn the power off, and HOW to apply artificial respiration. Instruction sheets on the latest approved method of resuscitation can be obtained from your local Red Cross office.

9. Develop your own safety technique. TAKE TIME TO BE CAREFUL. DEATH IS PERMANENT.

RULES FOR EQUIPMENT DESIGN AND CONSTRUCTION

ONE DISCONNECT SWITCH

A single plainly-labeled main switch should be provided to cut off all power from the equipment.

POWER SUPPLIES

All power supplies should be so enclosed or constructed that accidental bodily contact with power circuits is impossible.

All negative plate-supply and positive bias-supply terminals should be connected to the chassis and the chassis connected to a water pipe or other good ground connection.

Every power supply should use a conservatively-rated bleeder resistor. If it is placed on top of the chassis for ventilation, cover it with screening or perforated metal. When using shield wire for external power cabling, make sure the shielding is grounded to protect you in case of insulation breakdown.

PANEL CONTROLS AND METERING

Every control shaft extending through the front of the panel should be at ground potential. The frames of key or metering jacks should be fastened to the grounded panel. Meters, unless connected in the cathode or centertap, should be recessed to avoid danger of contact with the adjusting screw.

AUDIO EQUIPMENT

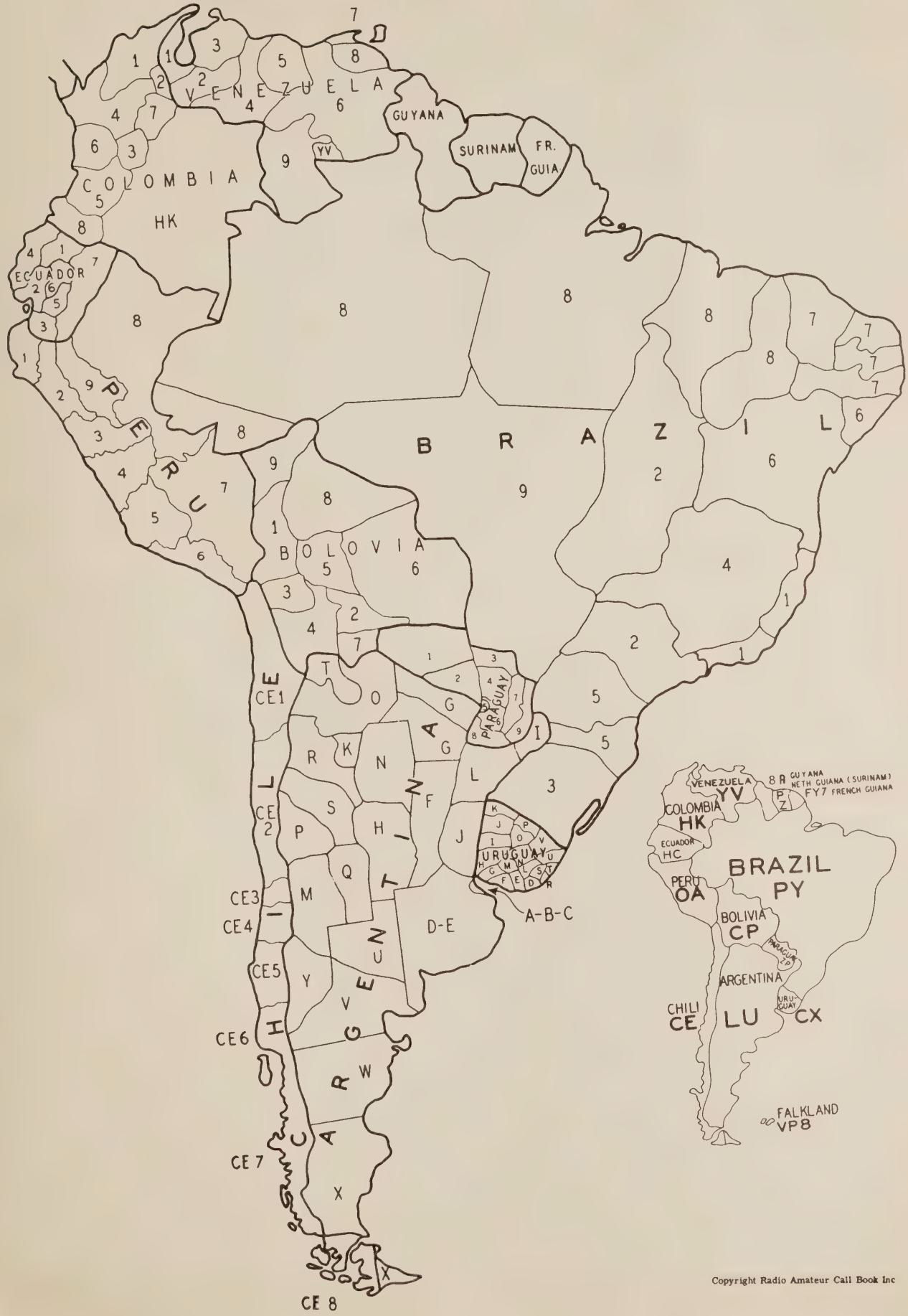
In addition to the construction rules set forth for power supplies, the following rule should be followed for speech equipment. The microphone stand and the enclosure should always be connected to the microphone-cable shield which, in turn, should be grounded to the chassis.

LIGHTNING PROTECTION

Merely "grounding everything" is not adequate protection from direct lightning strikes or static build-up. Lightning has devious methods of going where it isn't supposed to. There is only one way to protect your radio from lightning, and that is to disconnect everything completely and then ground all the disconnected lines. This applies to incoming power circuits, also; "pulling the big switch" is an old adage which makes sense. Finally, pay special attention to rotor control boxes; a lightning strike can come into the box via the control cable, go through the control box, out the power cord, and through your "cube-tap" (or whatever) and thence up the power cord of your radio, even though all power cords have been disconnected from the wall socket! Please, HANDLE EVERY CIRCUIT WITH CARE. The lowly 110-115 volts has caused more electrocutions than any other.

Form CT-9 (377)

PREFIX MAP OF SOUTH AMERICA



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RADIO AMATEURS PREFI

INTERNATIONAL RADIO AMATEUR PREFIXES

2ND EDITION
RADIO AMATEURS' 90-ZONE
PREFIX MAP OF THE WORLD

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MAP OF THE WORLD

PREFIXES—BY COUNTRIES

GREAT CIRCLE BEARINGS FROM THE UNITED STATES TO VARIOUS WORLD WIDE METROPOLITAN AREAS

	AMSTERDAM, HOLLAND	ANCHORAGE, ALASKA	ASUNCION, PARAGUAY	AUCKLAND, NEW ZEALAND	BOGOTA, COLOMBIA	BOMBAY, INDIA	BERN, SWITZERLAND	BRUSSELS, BELGIUM	BUENOS AIRES, ARGENTINA	CAIRO, EGYPT	CAPETOWN, SOUTH AFRICA	CARACAS, VENEZUELA	COPENHAGEN, DENMARK	GUATEMALA CITY, GUATEMALA	HAVANA, CUBA	HELSINKI, FINLAND	HONOLULU, HAWAII	JOHANNESBURG, SOUTH AFRICA	LA PAZ, BOLIVIA	LIMA, PERU	LONDON, ENGLAND	MADRID, SPAIN	MANILA, PHILIPPINES	MEXICO CITY, MEXICO	MONTEVIDEO, URUGUAY	MONTREAL, CANADA	OSLO, NORWAY	PARIS, FRANCE	PRAGUE, CZECHOSLOVAKIA	QUITO, ECUADOR	RIO DE JANEIRO, BRAZIL	ROME, ITALY	SAN JOSE, COSTA RICA	SANTIAGO, CHILE	SHANGHAI, CHINA	SINGAPORE, MALAYA	STOCKHOLM, SWEDEN	SYDNEY, AUSTRALIA	TOKYO, JAPAN
ATLANTA, GA.	43	325	153	242	160	26	48	45	158	51	114	141	38	198	170	30	280	102	160	170	45	58	329	227	156	32	34	47	42	170	139	51	179	168	336	346	33	254	324
BIRMINGHAM, ALA.	42	325	151	241	155	23	47	44	156	50	113	137	37	191	158	29	279	101	157	167	44	57	327	221	154	36	33	47	42	165	137	50	173	166	334	342	32	253	323
BISMARCK, N. D.	42	315	141	240	143	7	45	43	146	40	97	131	35	162	142	27	261	81	146	154	45	56	317	177	145	84	33	46	39	151	129	46	153	155	325	328	30	256	314
BOSTON, MASS.	51	321	167	253	186	36	56	53	169	60	117	172	45	217	210	36	284	105	177	187	53	68	346	235	168	331	40	56	50	191	153	59	205	181	349	7	39	270	335
BUFFALO, N. Y.	49	320	160	250	172	29	53	51	163	55	112	159	42	203	189	34	279	99	168	178	51	65	338	222	161	54	38	53	47	179	146	56	189	173	342	356	37	266	329
CHARLESTON, W. VA.	46	322	156	246	167	28	50	47	160	53	113	151	40	201	183	32	279	101	164	174	48	61	334	224	159	37	36	50	45	175	143	53	185	170	339	351	35	259	327
CHEYENNE, WYO.	38	322	138	236	135	3	41	40	143	37	100	122	32	151	127	24	263	84	141	148	41	52	312	166	142	69	30	42	36	143	126	42	144	152	322	321	27	250	312
CHICAGO, ILL.	45	320	152	245	158	21	49	47	156	49	108	144	39	186	165	31	274	95	158	167	48	60	328	207	154	66	36	50	44	167	138	51	173	166	335	343	34	260	323
CLEVELAND, OHIO	47	320	157	247	167	27	52	49	161	53	111	153	41	198	182	33	278	99	165	174	50	63	334	219	159	53	37	52	46	175	143	54	184	171	340	352	36	263	327
COLUMBIA, S. C.	44	324	156	243	166	29	49	46	161	53	115	148	39	206	186	31	281	103	164	175	46	59	333	232	159	24	35	48	44	175	142	52	187	171	339	352	34	255	327
DALLAS, TEXAS	39	326	142	237	138	12	43	41	148	44	110	122	34	161	123	26	274	97	146	154	42	53	317	189	147	48	31	43	38	149	130	45	150	157	326	326	29	249	317
DENVER, COLORADO	38	323	137	235	133	2	41	39	143	37	101	120	32	149	124	24	264	85	141	147	41	52	312	164	142	66	29	42	35	142	125	42	142	152	321	320	27	249	312
DES MOINES, IOWA	43	320	146	242	149	15	47	44	151	45	105	135	37	173	149	28	270	90	152	160	46	58	323	194	150	68	34	47	41	158	134	48	162	161	330	335	32	256	319
DETROIT, MICH.	47	320	156	247	166	25	51	49	160	52	110	151	41	195	178	32	277	97	163	173	50	63	333	216	159	62	37	52	46	173	142	54	182	169	339	350	35	263	326
EL PASO, TEXAS	36	329	135	233	125	1	39	37	142	37	108	111	30	136	106	22	270	94	137	142	38	49	308	150	140	52	27	40	34	135	124	41	131	149	319	313	25	245	312
HELENA, MONTANA	36	318	133	233	130	355	39	38	138	31	89	119	30	144	124	22	252	71	136	142	39	49	308	154	137	78	28	40	33	138	121	39	138	147	317	316	25	249	307
HOUSTON, TEXAS	39	328	143	237	137	15	43	41	149	45	113	120	34	162	116	26	277	100	147	154	41	53	317	199	147	41	30	43	38	149	130	46	150	158	327	326	29	247	318
INDIANAPOLIS, IND.	45	321	153	244	160	23	49	47	157	50	110	144	39	190	168	31	276	97	160	169	47	60	329	212	155	54	35	49	43	168	139	52	176	167	336	345	34	259	324
JACKSONVILLE, FLA.	42	326	155	242	163	30	48	44	160	53	117	142	37	209	185	30	283	105	163	173	44	57	331	239	158	20	33	47	42	174	141	51	187	170	338	350	33	251	326
KANSAS CITY, MO.	42	322	145	240	146	14	45	43	151	45	107	132	36	171	143	28	271	93	151	159	44	56	321	193	149	61	33	46	40	156	133	47	159	160	329	333	31	254	319
LITTLE ROCK, ARK.	41	325	146	240	147	17	45	43	152	47	111	130	36	175	141	28	275	98	152	160	43	56	322	203	150	47	32	45	40	157	134	48	161	161	330	334	31	252	320
LOS ANGELES, CALIF.	31	333	127	228	116	347	34	33	135	28	102	104	26	121	100	18	260	84	128	132	34	44	300	126	134	58	24	35	28	124	117	34	119	141	312	303	21	241	306
LOUISVILLE, KY.	44	322	153	244	160	23	49	46	157	50	111	144	39	191	168	30	277	98	160	169	47	60	329	215	156	47	35	49	43	168	139	51	176	167	336	345	33	257	324
MIAMI, FLORIDA	41	328	155	240	163	33	47	43	160	54	118	138	37	223	217	30	285	108	163	175	43	56	331	254	158	13	33	46	42	176	140	50	194	171	339	351	32	247	327
MILWAUKEE, WIS.	45	319	152	245	158	20	50	47	156	49	107	145	39	185	165	31	273	94	158	167	48	61	328	205	154	72	36	50	44	166	138	52	173	165	335	343	34	261	323
MINNEAPOLIS, MINN.	44	317	147	243	152	15	48	46	152	46	103	139	38	175	154	29	270	90	153	161	47	59	324	193	150	81	35	49	42	160	134	49	164	161	331	337	33	259	319
NASHVILLE, TENN.	43	323	151	242	157	23	48	45	156	50	112	140	38	190	162	30	277	99	158	167	46	58	328	216	155	43	34	48	42	166	138	50	174	166	335	343	33	255	324
NEW ORLEANS, LA.	40	327	147	239	146	21	45	42	153	48	114	127	35	182	133	28	279	102	152	161	43	55	322	220	151	35	32	45	40	158	135	48	163	162	331	334	30	249	321
NEW YORK, N. Y.	49	321	164	251	180	34	54	51	167	58	116	166	43	214	204	35	283	104	173	184	51	66	343	233	165	4	39	54	48	187	150	57	199	177	346	3	38	266	333
NORFOLK, VA.	46	323	161	247	176	33	51	48	165	56	116	160	41	213	203	33	283	104	170	181	48	62	339	235	163	12	36	51	46	184	147	55	197	175	344	0	36	260	331
PHILADELPHIA, PA.	48	322	163	249	178	33	53	50	166	57	115	164	42	212	202	34	282	103	172	182	50	65	341	232	164	11	38	53	48	185	149	56	197	176	345	2	37	264	332
PHOENIX, ARIZONA	34	330	131	231	121	354	37	35	138	33	105	108	28	129	104	20	265	89	133	138	36	47	304	137	137	56	26	38	31	130	121	38	126	146	316	308	23	243	309
PITTSBURGH, PA.	47	321	158	247	170	29	52	49	162	54	113	155	41	203	187	33	279	100	167	176	49	63	336	224	160	41	37	52	46	178	145	55	188	172	341	354	36	262	329
ST. LOUIS, MO.	43	322	149	242	153	19	47	45	154	48	109	137	37	181	156	29	274	96	155	164	46	58	325	204	152	55	34	47	42	162	136	49	167	163	332	339	32	256	321
SALT LAKE CITY, UTAH	35	325	132	232	127	355	38	36	139	32	96	114	29	138	116	21	258	79	135	141	38	48	307	149	136	67	27	39	32	135	121	38	134	146	317	313	24	247	308
SAN FRANCISCO, CALIF.	30	333	125	226	115	343	32	31	132	24	95	104	24	121	101	16	252	74	126	130	33	42	298	126	131	62	22	33	26	123	115	32	119	139	310	301	19	240	303
SEATTLE, WASHINGTON	31	321	125	227	120	345	33	32	131	23	79	110	25	131	113	17	240	58	128	133	34	43	300	138	130	75	24	35	27	128	113	32	127	139	309	306	20	243	301
WASHINGTON, D. C.	47	322	161	248	175	32	52	49	164	56	115	160	41	210	198	33	282	103	170	180	49	63	339	231	163	20	37	52	47	182	147	55	194	174	343	359	36	262	331
WILMINGTON, N. C.	45	324	159	245	172	32	50	47	163	55	116	154	39	213	200	32	283	105	168	179	47	60	337	237	161	15	35	49	45	181	145	53	194	173	342	357	34	256	329

The above table shows the great circle bearing in degrees, of various metropolitan areas in the United States in relationship to large cities throughout the world. This table should be used from left to right only. To find the great circle bearing between any two of the cities shown, start at the left and follow the horizontal line to the right until you come to the column directly under the name of the city that you desire to beam a radio signal to. For all practical purposes in the United States, Polaris (the North Star), is due north. To find this star, to calibrate a directional radio beam, look for the first star on a straight line with the two outer stars on the outside edge of the cup of the big dipper. This table was compiled from information furnished by the U. S. Coast and Geodetic Survey.

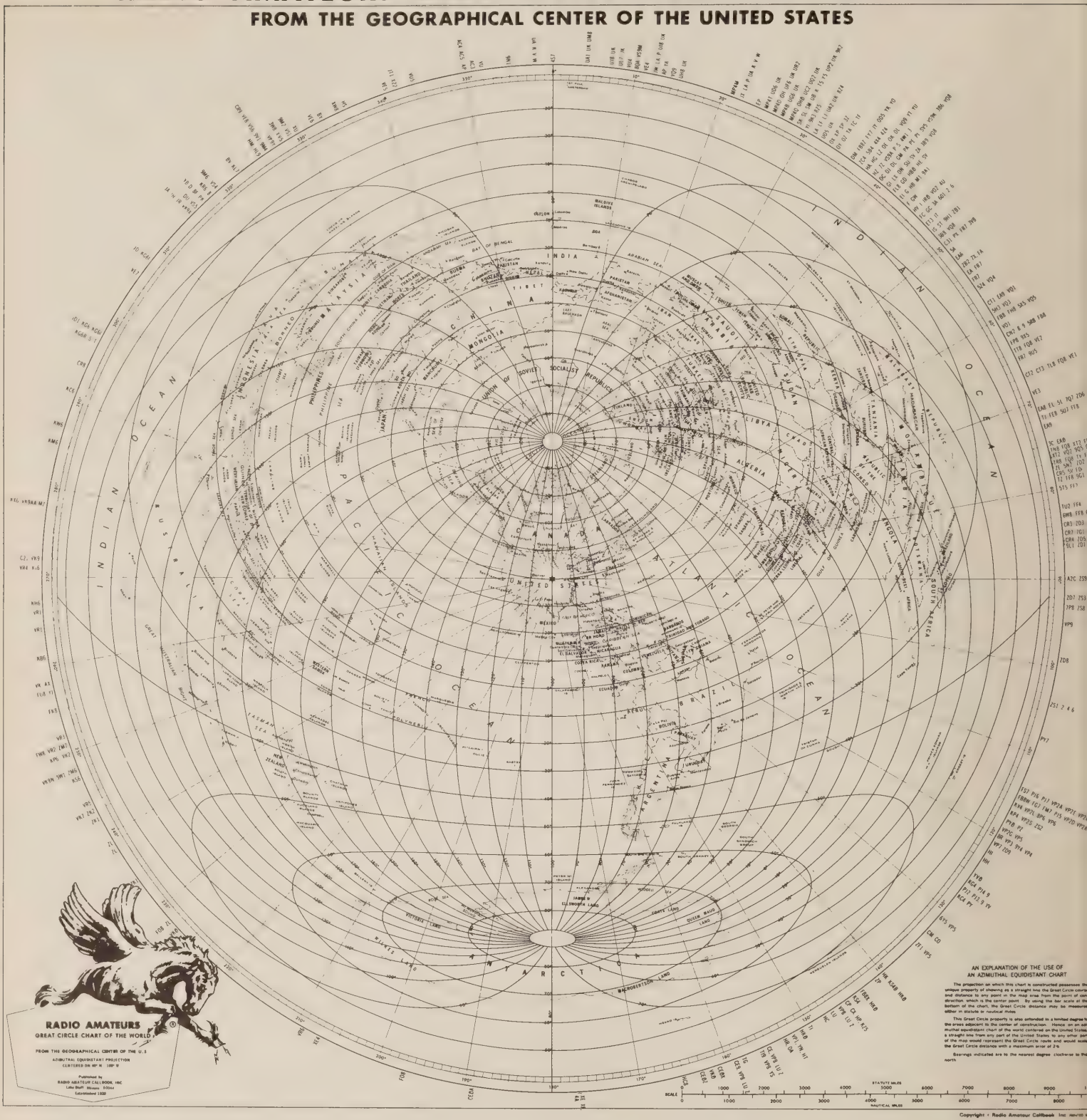
GREAT CIRCLE BEARINGS IN THE UNITED STATES

	ATLANTA, GA.	BIRMINGHAM, ALA.	BISMARCK, N. D.	BOSTON, MASS.	BUFFALO, N. Y.	CHARLESTON, W. VA.	CHEYENNE, WYO.	CHICAGO, ILL.	CLEVELAND, OHIO	COLUMBIA, S. C.	DALLAS, TEXAS	DENVER, COLORADO	DES MOINES, IOWA	DETROIT, MICH.	EL PASO, TEXAS	HELENA, MONTANA	HOUSTON, TEXAS	INDIANAPOLIS, IND.	JACKSONVILLE, FLA.	KANSAS CITY, MO.	LITTLE ROCK, ARK.	LOS ANGELES, CALIF.	LOUISVILLE, KY.	MIAMI, FLORIDA	MILWAUKEE, WIS.	MINNEAPOLIS, MINN.	NASHVILLE, TENN.	NEW ORLEANS, LA.	NEW YORK, N. Y.	NORFOLK, VA.	PHILADELPHIA, PA.	PHOENIX, ARIZONA	PITTSBURGH, PA.	ST. LOUIS, MO.	SALT LAKE CITY, UTAH	SAN FRANCISCO, CALIF.	SEATTLE, WASHINGTON	WASHINGTON, D. C.	WILMINGTON, N. C.
ATLANTA, GA.		264	322	47	24	25	301	343	15	86	259	297	320	7	271	310	251	347	145	306	281	281	347	154	345	331	321	234	48	64	48	278	27	318	296	289	308	48	84
BIRMINGHAM, ALA.	82		326	50	31	40	304	356	26	84	268	299	328	17	270	312	246	5	125	314	287	281	10	142	355	338	0	219	52	67	53	278	37	333	298	290	309	53	83
BISMARCK, N. D.	132	137		92	97	115	209	114	105	124	167	205	133	104	198	273	165	119	132	148	150	233	123	135	109	108	131	151	99	111	102	217	106	134	237	249	282	107	119
BOSTON, MASS.	236	241	291		277	247	278	273	267	226	254	275	275	274	262	293	246	263	220	268	253	273	256	207	278	286	249	237	235	219	233	268	258	262	280	280	295	236	217
BUFFALO, N. Y.	208	217	291	92		206	273	264	237	192	241	269	268	261	252	290	231	243	191	258	237	267	231	184	274	286	225	219	118	160	134	261	199	248	276	276	293	159	174
CHARLESTON, W. VA.	208	223	307	61	24		287	309	359	174	251	282	293	345	260	300	238	293	180	279	251	274	270	174	316	311	245	223	66	108	71	269	31	275	286	282	301	80	143
CHEYENNE, WYO.	108	112	26	76	76	91		81	81	103	140	187	83	79	189	319	143	90	113	101	119	241	95	119	76	62	104	128	81	92	83	219	84	98	268	262	303	87	100
CHICAGO, ILL.	161	175	302	82	78	125	272		93	144	221	266	268	80	242	293	210	151	155	245	208	262	157	156	350	308	173	190	91	116	97	254	101	212	274	272	295	106	131
CLEVELAND, OHIO	197	209	297	80	55	179	277	277		176	240	272	275	310	252	293	228	245	180	261	235	268	226	175	290	296	219	214	95	136	105	262	127	250	278	277	296	124	156
COLUMBIA, S. C.	268	267	317	41	10	354	299	329	356		270	295	311	350	271	308	256	326	189	300	279	282	320	174	331	323	297	246	39	53	37	279	7	305	295	290	307	33	85
DALLAS, TEXAS	81	82	349	57	49	61	325	36	50	80		319	15	45	266	325	157	47	97	15	61	280	55	112	32	11	65	115	60	71	61	277	55	40	308	291	315	63	80
DENVER, COLORADO	103	107	22	73	72	87	6	75	77	99	134		74	74	189	325	138	84	109	91	112	246	90	116	70	55	98	124	78	88	80	224	80	91	283	267	308	83	96
DES MOINES, IOWA	134	144	318	80	78	105	271	84	87	123	197	262		81	231	297	187	105	135	197	171	257	116	141	69	5	133	165	87	104	91	247	92	137	273	270	296	97	115
DETROIT, MICH.	188	200	295	86	79	164	273	263	129	168	233	268	268		248	291	222	224	174	254	227	265	208	171	282	292	206	207	100	133	109	258	128	238	275	274	294	124	151
EL PASO, TEXAS	77	78	14	58	54	64	8	50	56	76	79	8	42	53		345	98	57	86	48	71	285	62	97	46	33	68	92	61	69	62	290	59	57	335	298	327	64	75
HELENA, MONTANA	112	116	85	84	88	100	133	97	93	108	134	141	105	92	162		136	101	115	115	122	203	105	119	94	91	111	127	89	98	92	180	94	109	179	224	283	95	104
HOUSTON, TEXAS	64	60	348	50	40	49	329	25	39	67	338	325	6	34	285	327		34	84	3	26	288	40	103	22	5	46	86	52	60	53	289	45	24	314	297	319	5	68
INDIANAPOLIS, IND.	166	185	308	72	58	110	281	332	62	143	234	276	290	41	250	298	220		157	267	226	267	168	158	338	316	188	199	80	107	85	261	80	251	281	277	298	94	127
JACKSONVILLE, FLA.	327	309	324	33	9	1	308	339	0	8	286	304	323	355	282	314	273	340		314	300	288	338	163	341	332	326	271	29	34	28	287	8	323	303	295	312	23	39
KANSAS CITY, MO.	120	129	332	72	67	90	288	60	73	111	196	278	15	66	236	306	184	82	126		157	262	95	134	50	9	113	157	78	93	81	253	79	97	282	275	302	85	105
LITTLE ROCK, ARK.	97	104	335	59	48	65	307	26	48	92	243	300	352	41	260	315	208	43	114	338		276	55	128	21	356	71	158	62	76	64	271	56	22	297	286	309	67	89
LOS ANGELES, CALIF.	81	82	41	62	61	70	52	62	65	79	88	57	60	62	100	19	96	67	87	67	81		70	94	59	52	76	92	65	71	66	95	67	69	35	319	348	68	78
LOUISVILLE, KY.	166	190	313	66	47	87	287	339	43	137	242	282	301	26	256	302	227	348	156	280	239	271		158	342	322	202	205	71	98	75	266	63	278	285	281	301	82	120
MIAMI, FLORIDA	337	326	329	22	3	355	313	342	356	355	302	310	329	353	291	318	290	342	345	321	315	293	341		342	335	334	298	18	16	15	293	1	330	308	299	315	11	13
MILWAUKEE, WIS.	162	175	297	87	88	132	267	170	107	147	218	261	253	99	239	290	207	157	156	235	204	259	160	157		298	172	188	98	121	103	251	111	203	271	270	293	113	135
MINNEAPOLIS, MINN.	145	154	291	91	96	123	248	125	108	135	193	242	184	105	227	283	186	132	144	189	175	248	137	146	114		148	169	99	116	104	237	110	159	259	261	287	111	127
NASHVILLE, TENN.	140	180	320	59	40	61	295	354	36	114	251	290	318	24	261	307	231	8	142	298	254	275	22	150	353	333		205	63	83	65	271	50	313	291	285	305	68	103
NEW ORLEANS, LA.	50	37	337	46	32	38	318	9	28	60	299	313	347	22	283	321	270	17	86	339	339	288	22	114	7	351	23		46	56	47	287	35	359	308	296	315	47	64
NEW YORK, N. Y.	233	240	296	54	303	251	281	281	280	223	255	278	280	286	262	294	244	269	213	271	253	274	259	202	287	293	251	237		205	229	269	269	266	283	282	297	235	208
NORFOLK, VA.	249	253	306	35	342	291	290	303	319	236	264	286	295	318	268	301	253	294	217	285	267	279	284	198	308	307	269	244	25		16	274	322	284	289	286	302	343	208
PHILADELPHIA, PA.	233	240	298	52	317	255	283	285	289	221	255	279	283	294	263	296	246	273	212	273	255	275	263	199	292	296	252	235	49	197		270	279	269	284	282	298	235	203
PHOENIX, ARIZONA	80	83	29	61	59	69	35	58	62	79	89	40	55	59	108	0	100	64	89	62	80	277	70	97	55	45	74	93	64	72	66		64	66	1	300	334	68	79
PITTSBURGH, PA.	210	221	300	72	18	213	280	286	308	188	246	276	281	310	257	295	235	264	189	268	244	271	246	181	296	299	234	222	85	140	96	265		261	281	279	297	123	165
ST. LOUIS, MO.	134	150	320	70	60	90	287	30	63	119	224	280	319	53	248	303	207	68	137	280	204	267	94	143	20	342	130	179	75	95	79	260	74		284	278	301	84	110
SALT LAKE CITY, UTAH	99	101	50	73	74	86	83	79	78	95	118	98	80	76	152	359	123	84	103	91	104	220	88	109	75	67	95	114	78	86	80	181	80	90		254	315	83	92
SAN FRANCISCO, CALIF.	86	86	54	66	67	75	70	70	70	83	96	75	70	68	109	39	101	73	90	77	88	136	77	96	67	62	81	97	69	76	71	114	71	77	66		1	73	81
SEATTLE, WASHINGTON	103	105	87	81	84	94	111	92	89	100	118	116	97	88	136	96	120	95	105	103	109	165	97	109	90	88	102	114	85	92	87	147	89	100	128	181		90	97
WASHINGTON, D. C.	233	240	302	52	342	263	285	293	307	215	256	281	287	308	263	298	245	280	205	277	257	275	268	192	300	302	254	235	53	163	53	270	305	273	285	283	300		189
WILMINGTON, N. C.	267	267	313	32	355	325	297	318	339	267	270	293	306	335	274	307	258	313	222	296	278	283	305	194	322	317	289	251	25	27	21	278	346	298	295	290	306	9	

The above table shows the great circle bearing in degrees, of various metropolitan areas in the United States in relationship to each other. This table should be used from left to right only. To find the great circle bearing between any two of the cities shown, start at the left and follow the horizontal line to the right until you come to the column directly under the name of the city that you desire to beam a radio signal to. For all practical purposes in the United States, Polaris (the North Star), is due north. To find this star, to calibrate a directional radio beam, look for the first star on a straight line with the two outer stars on the outside edge of the cup of the big dipper. This table was compiled from information furnished by the U. S. Coast and Geodetic Survey.

RADIO AMATEURS GREAT CIRCLE CHART OF THE WORLD

FROM THE GEOGRAPHICAL CENTER OF THE UNITED STATES



Above map available in 4 colors, 30" x 25". Write for free catalog.

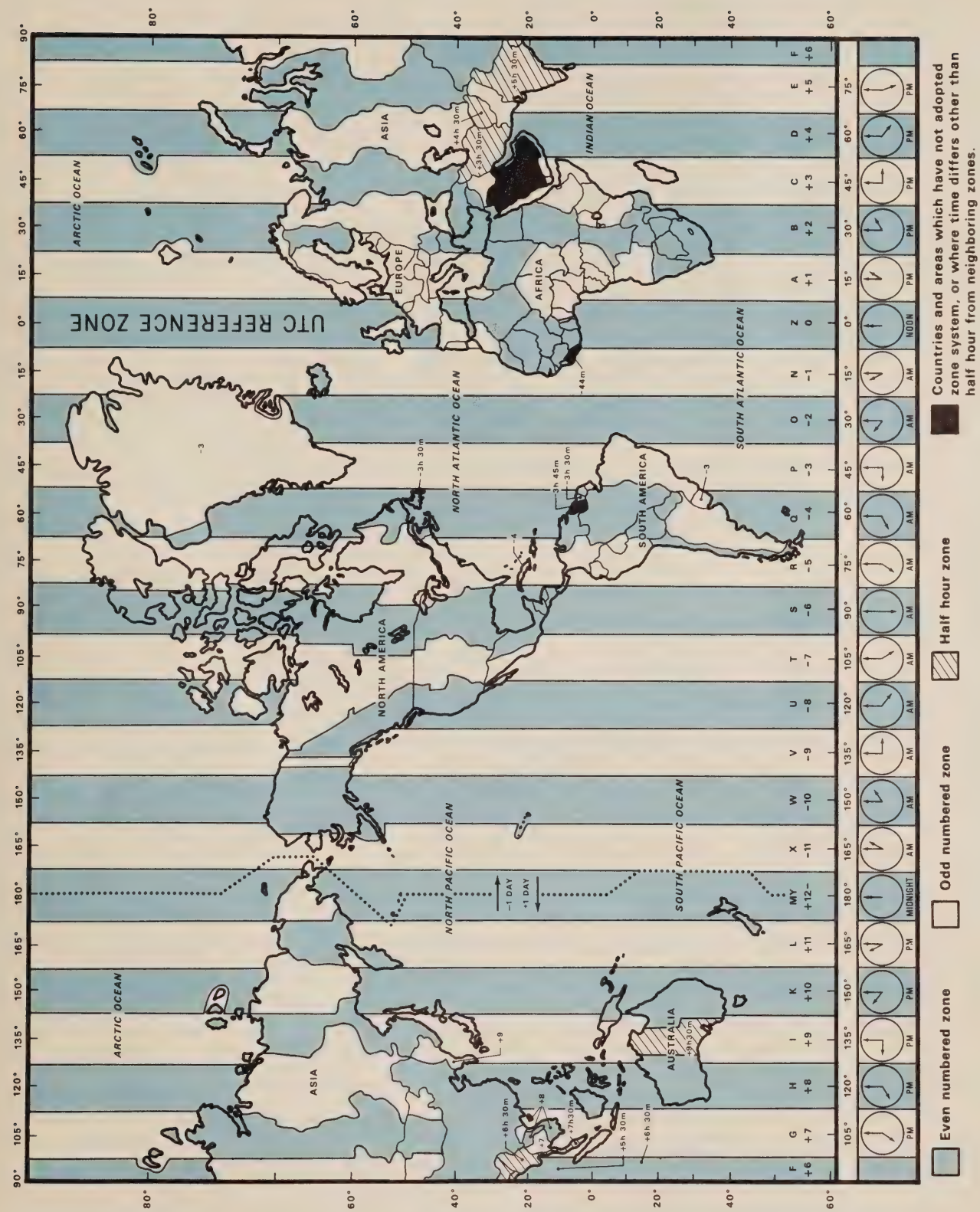
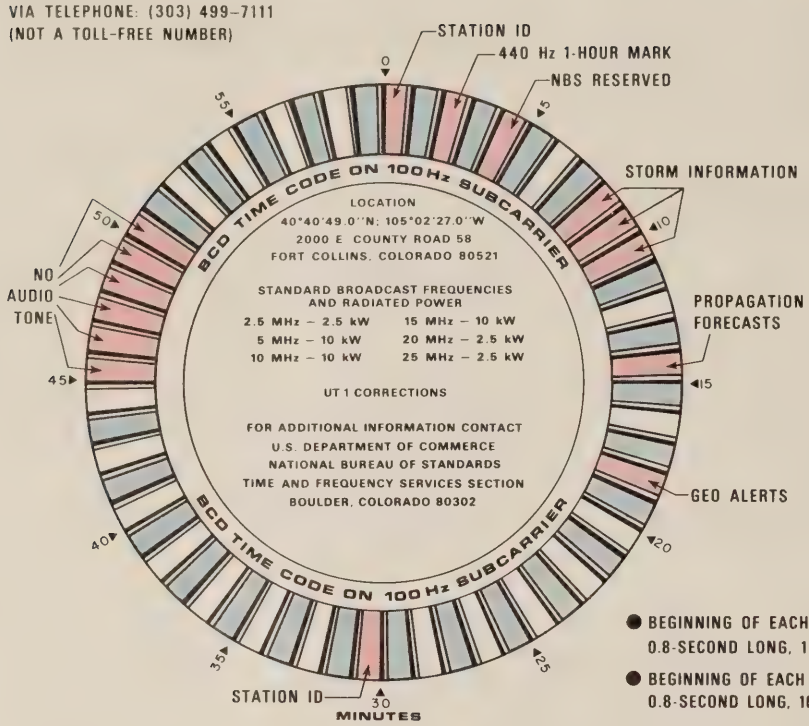


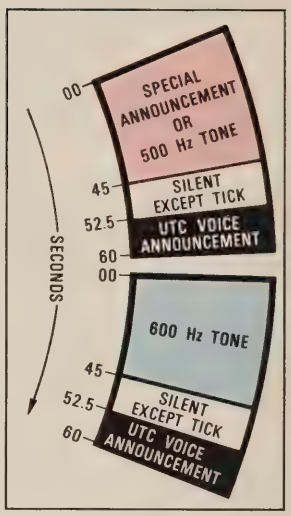
Figure 3. Standard time zones of the world and their relationship to UTC.

WWV BROADCAST FORMAT

U.S DEPARTMENT OF COMMERCE
National Bureau of Standards

VIA TELEPHONE: (303) 499–7111
(NOT A TOLL-FREE NUMBER)

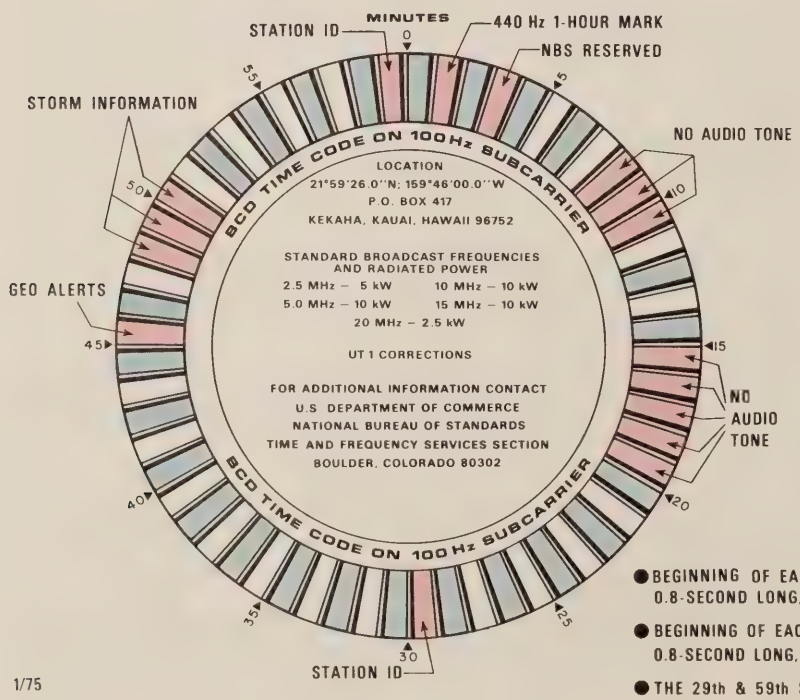


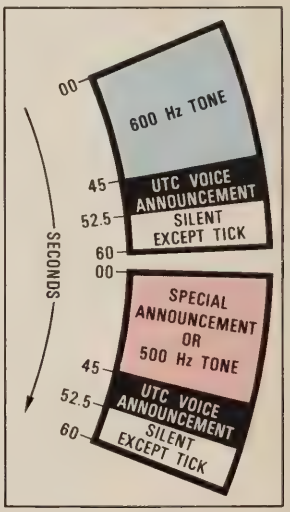


- BEGINNING OF EACH HOUR IS IDENTIFIED BY 0.8-SECOND LONG, 1500-Hz TONE.
- BEGINNING OF EACH MINUTE IS IDENTIFIED BY 0.8-SECOND LONG, 1000-Hz TONE.
- THE 29th & 59th SECOND PULSE OF EACH MINUTE IS OMITTED

WWVH BROADCAST FORMAT

VIA TELEPHONE: (808) 335–4363 (NOT A TOLL-FREE NUMBER)





- BEGINNING OF EACH HOUR IS IDENTIFIED BY 0.8-SECOND LONG, 1500-Hz TONE.
- BEGINNING OF EACH MINUTE IS IDENTIFIED BY 0.8-SECOND LONG, 1200-Hz TONE.
- THE 29th & 59th SECOND PULSE OF EACH MINUTE IS OMITTED.

1/75

Figure 1. The hourly broadcast schedules of WWV and WWVH.

THE GEOGRAPHICAL CENTER OF THE

United States

The table below shows the great circle bearing in degrees and the distance in statute miles, from the point indicated above to countries throughout the world having licensed radio amateurs.

PREFIX	COUNTRY	BEARING	MILES
AC3	SIKKIM, GANGTOK	351	7773
AC4	TIBET, LHASA	350	7550
AP	PAKISTAN, KARACHI	15	7846
A2C	BOTSWANA, MAFEKING	90	9229
A35	TONGA IS.,NUKUALOFA	244	6403
A4X	SULTANATE OF OMAN	23	7626
A51	BHUTAN	350	7686
A6X	UNITED ARAB EMIRATES	25	7713
A7X	QATAR,AD-DAWHAH	27	7602
A9X	BAHRAIN IS.	27	7514
BV	TAIWAN (FORMOSA), TAIPEI	322	7228
BY	CHINA, PEKING	333	6461
CE	CHILE, SANTIAGO	155	5388
CE9AN-AZ	S. SHETLAND IS	159	7534
CEØA	EASTER IS	189	4677
CEØX	SAN FELIX IS	161	4752
CEØZ	JUAN FERNANDEZ IS.	163	5217
CM,CO	CUBA, HAVANA	133	1586
CN	MOROCCO, CASABLANCA	62	4863
CP	BOLIVIA, LA PAZ	145	4396
CR3	PORTUGUESE GUINEA, BISSAU	84	5383
CR4	CAPE VERDE IS	86	4790
CR5	SAO TOME IS. & PRINCIPE IS.	79	7124
CR6	ANGOLA, NOVA LISBOA	83	8177
CR7	MOZAMBIQUE, LOURENCO MARQUES	85	9599
CR8	TIMOR IS. (PORTUGUESE)	294	8899
CR9	MACAO	326	7625
CT1	PORTUGAL, LISBON	58	4621
CT2	AZORES IS	67	3764
CT3	MADEIRA IS	67	4473
CX	URUGUAY, MONTEVIDEO	145	5506
C21	REP. OF NAURU	271	6423
C31	ANDORRA, ANDORRA	50	4928
DA-L	FEDERAL REP. OF GERMANY, BONN	40	4770
DM	E. GERMAN DEM. REP., BERLIN	36	4876
DU	PHILIPPINES, MANILA	316	7813
EA	SPAIN, MADRID	54	4801
EA6	BALEARIC IS	52	5139
EA8	CANARY IS	71	4765
EA9	CEUTA AND MELILLA	58	4919
EA9	SPANISH SAHARA	73	5029
EI	IRELAND, DUBLIN	43	4234
EL,5L	LIBERIA, MONROVIA	86	5911
EP	IRAN, TEHRAN	24	6939
ET3	ETHIOPIA, ADDIS ABABA	47	8166
F	FRANCE, PARIS	44	4677
FB8W	CROZET IS	115	10691
FB8X	KERGUELEN IS	143	11635
FB8Z	AMSTERDAM AND ST. PAUL IS	36	12273
FC	CORSICA	46	5244
FG7	GUADELOUPE IS	115	2827
FH8	COMORO IS.	59	9527
FK8	NEW CALEDONIA, NOUMEA	255	7389
FL8	FRENCH SOMALILAND, DJIBOUTI	42	8139
FM7	MARTINIQUE	115	2923
FO8	FRENCH POLYNESIA, TAHITI	228	5104
FO8	CLIPPERTON IS	197	2153
FP8	ST. PIERRE AND MIQUELON IS	63	2231
FR7	GLORIOSO IS	54	5606
FR7	JUAN DE NOVA	65	9729
FR7	REUNION IS, SAINT-DENIS	55	10477
FR7	TROMELIN	50	10170
FS7	SAINT MARTIN IS	114	2684
FW8	WALLIS AND FUTUNA IS	251	6176
FY7	FRENCH GUIANA, CAYENNE	116	3846
G	ENGLAND, LONDON	43	4524
GC	CHANNEL IS.	46	4527
GD	ISLE OF MAN, DOUGLAS	42	4271
GI	NORTHERN IRELAND, BELFAST	41	4167
GM	SCOTLAND, GLASGOW	40	4202
GW	WALES, CARDIFF	44	4415
HA,HG	HUNGARY, BUDAPEST	38	5357
HB	SWITZERLAND, BERN	43	4944
HBØ	LIECHTENSTEIN, VADUZ	42	5052
HC	ECUADOR, QUITO	148	3104
HC8	GALAPAGOS IS	165	2846
HH	HAITI, PORT-AU-PRINCE	123	2216
HI	DOMINICAN REP., SANTO DOMINGO	122	2356
HK	COLOMBIA, BOGOTA	140	2981
HKØ	MALPELO IS	151	2741
HKØ	SERRANA BANK & RONCADOR CAY	140	2177
HKØ	SAN ANDRES & PROVIDENCIA IS	143	2205
HM,HL9	KOREA, SEOUL	325	6280
HP	PANAMA, PANAMA	145	2482
HR	HONDURAS, TEGUCIGALPA	153	1972
HRØ	SWAN IS.	144	1866
HS	THAILAND, BANGKOK	336	8470
HV	VATICAN CITY	45	5358
HZ,7Z	SAUDI ARABIA, MECCA	39	7444
I,IW	ITALY, ROME	45	5358
IA	PIANOSA IS.	43	5504
IC	CAPRI & ISCHIA IS.	45	5480
IG9	LAMPEDUSA IS.	49	5685
IH	PANTELLERIA IS.	49	5597
IS	SARDINIA	48	5337
IT	SICILY	47	5676
JA-JR	JAPAN, TOKYO	315	5947
JD1	OGASAWARA IS (BONIN)	308	6330
JD1	MINAMI-TORI-SHIMA IS (MARCUS)	298	5946
JR6	OKINAWA (RYUKYU IS)	318	6873
JT1	MONGOLIA, ULAN BATOR	342	6134
JW	SVALBARD IS	12	3916
JX	JAN MAYEN IS	22	3617
JY	JORDAN, AMMAN	36	6726
KB6	BAKER, CANTON, AND OTHER IS	261	5482
KC4	NAVASSA IS	128	2139
KC6	CAROLINE IS	291	7044
KG4	GUANTANAMO BAY, CUBA	126	2034
KG6	MARIANA IS.	298	6703
KG6	ROTA IS.	297	6849
KG6	SAIPAN	297	6753
KH6	HAWAII, HONOLULU	267	3624
KH6	KURE IS.	286	4402
KJ6	JOHNSTON IS	271	4421
KL7	ALASKA, ANCHORAGE	322	2536
KM6	MIDWAY IS	285	4351
KP4	PUERTO RICO, SAN JUAN	117	2541
KP6	JARVIS AND PALMYRA IS	250	4665
KS6	AMERICAN SAMOA	247	5880
KV4	VIRGIN IS, CHARLOTTE AMALIE	116	2588
KW6	WAKE IS	287	5536
KX6	MARSHALL IS	278	5925
KZ5	CANAL ZONE, COLON	145	2482
LA-LJ	NORWAY, OSLO	31	4507
LU	ARGENTINA, BUENOS AIRES	147	5846
LX	LUXEMBOURG, LUXEMBOURG	41	4778
LZ	BULGARIA, SOFIA	38	5694
M1	SAN MARINO, SAN MARINO	43	5263
OA	PERU, LIMA	153	3897
OD5	LEBANON, BEIRUT	36	6579
OE	AUSTRIA, VIENNA	38	5210
OH	FINLAND, HELSINKI	26	4859
OHØ	ALAND IS	28	4740
OJØ,OHØM	MARKET REEF	28	4740
OK,OL	CZECHOSLOVAKIA, PRAGUE	38	5048
ON	BELGIUM, BRUSSELS	41	4666
OX	GREENLAND, GODTHAB	33	2531
OY	FAEROES IS, TORSHAVN	34	3921
OZ	DENMARK, COPENHAGEN	34	4740
PA,PE,PI	NETHERLANDS, AMSTERDAM	40	4659
PJ2,9	NETH. ANTILLES, CURACAO	127	2714
PJ3,9	NETH. ANTILLES, ARUBA	127	2618
PJ4,9	NETH. ANTILLES, BONAIRE	126	2756
PJ5,8	NETH. ANTILLES, ST. EUSTATIUS	115	2731
PJ6,8	NETH. ANTILLES, SABA	114	2684
PJ7,8	NETH. ANTILLES, SINT MAARTEN	114	2684
PT,PY	BRAZIL, BRASILIA	128	5125
PYØ	FERNANDO DE NORONHA	108	5266
PYØ	TRINDADE AND MARTIM VAZ IS	118	6223
PZ	SURINAM, PARAMARIBO	118	3654
P29	PAPUA NEW GUINEA,PORT MORESBY	277	7878
SK,SL,SM	SWEDEN, STOCKHOLM	29	4738
SP	POLAND, WARSAW	33	5165
ST	SUDAN, KHARTOUM	48	7537
SU	EGYPT, CAIRO	41	6676
SV	GREECE, ATHENS	41	5993
SV	CRETE	42	6189
SV5	DODECANESE IS	40	6204
S2,S3	BANGLADESH, DACCA	350	7969
TA,TC	TURKEY, ANKARA	34	6171
TF	ICELAND, REYKJAVIK	34	3431
TG	GUATEMALA, GUATEMALA CITY	158	1840
TI	COSTA RICA, SAN JOSE	150	2305
TI9	COCOS IS	156	2582
TJ	CAMEROON, YAOUNDE	72	7195
TL8	CENTRAL AFRICAN REP., BANGUI	67	7542
TN8	CONGO REPUBLIC, BRAZZAVILLE	76	7721
TR8	GABON REPUBLIC, LIBREVILLE	77	7228
TT8	CHAD REPUBLIC, FORT-LAMY	64	6957
TU2	IVORY COAST, ABIDJAN	82	6324
TY	DAHOMEY REP., PORTO NOVO	77	6643
TZ	MALI REPUBLIC, BAMAKO	79	5758
UA1	EUROPEAN RUSS.S.F.S.R.,MOSCOW	22	5364
UA9,Ø	ASIATIC RUSSIAN S.F.S.R.	358	5870
UB5	UKRAINIAN S.S.R.	29	5630
UC2	WHITE RUSSIAN S.S.R., MINSK	28	5250
UD6	AZERBAIDZHAN S.S.R.	25	6535
UF6	GEORGIAN S.S.R.	26	6342
UG6	ARMENIAN S.S.R.	27	6442
UH8	TURKMEN S.S.R.	15	6770
UI8	UZBEK S.S.R.	12	6752
UJ8	TADZHIK S.S.R.	7	6950
UL7	KAZAKH S.S.R.	8	6313
UM8	KIRGHIZ S.S.R.	4	6832
UO5	MOLDAVIAN S.S.R.	32	5660
UP2	LITHUANIAN S.S.R.	29	5042
UQ2	LATVIAN S.S.R.	28	5015
UR2	ESTONIAN S.S.R.	26	4911
VE1	CANADA, HALIFAX	67	1855
VE2	CANADA, MONTREAL	64	1374
VE3	CANADA, TORONTO	69	1113
VE4	CANADA, WINNIPEG	11	701
VE5	CANADA, SASKATOON	341	886
VE6	CANADA, EDMONTON	332	1134
VE7	CANADA, VANCOUVER	306	1279
VE8	CANADA, WHITEHORSE	326	2063
VK	AUSTRALIA, BRISBANE	258	8257
VK2	LORD HOWE IS	250	8138
VK7	TASMANIA IS, HOBART	243	9066
VK9N	NORFOLK IS	248	7577
VK9X	CHRISTMAS IS	315	9824
VK9Y	COCOS IS	327	10245
VKØ	HEARD IS	162	11501
VKØ	MACQUARIE IS	225	8828
VO1	NEWFOUNDLAND, ST. JOHNS	61	2366
VO2	LABRADOR, HOPEDALE	45	2113
VP1	BELIZE (BRITISH HONDURAS)	152	1755
VP2A	ANTIGUA, SAINT JOHNS	114	2780
VP2D	DOMINICA	115	2523
VP2E	ANGUILLA	114	2684
VP2G	GRENADA AND DEPENDENCIES	119	3024
VP2K	ST. KITTS, NEVIS	115	2731
VP2L	ST. LUCIA	116	2972
VP2M	MONTSERRAT	114	2780
VP2S	ST. VINCENT AND DEPENDENCIES	117	3021
VP2V	BRITISH VIRGIN IS	115	2636
VP5	TURKS AND CAICOS IS	119	2068
VP7	BAHAMA IS, NASSAU	121	1695
VP8	FALKLAND IS	156	6833
VP8	SOUTH GEORGIA IS	146	7507
VP8	SOUTH ORKNEY IS	155	7647
VP8	SOUTH SANDWICH IS	146	7980
VP8	SOUTH SHETLAND IS	162	7408
VP9	BERMUDA IS, HAMILTON	95	2027
VQ9	CHAGOS IS	14	10041
VQ9	SEYCHELLES IS	38	9603
VR1	BRITISH PHOENIX IS	266	6293
VR1	GILBERT, ELLICE AND OCEAN IS	264	6135
VR3,7	LINE IS.	247	4517
VR4	SOLOMON IS	271	7157
VR6	PITCAIRN IS	209	4898
VS5	BRUNEI	316	8616
VS6	HONG KONG	326	7625
VS9K	KAMARAN IS	40	7961
VU2	INDIA, CALCUTTA	352	8055
VU2	LACCADIVE IS	9	8957
VU2	ANDAMAN AND NICOBAR IS	344	8750
XE,XF	MEXICO, MEXICO CITY	177	1461
XE4	REVILLAGIGEDO IS	207	1597
XT2	UPPER VOLTA, OUAGADOUGOU	76	6112
XU	CAMBODIA/KHMER REP,PHNUM PENH	330	8503
XV5	SOUTH VIETNAM, SAIGON	328	8512
XW8	LAOS, VIENTIANE	335	8165
XZ	BURMA, RANGOON	342	8367
YA	AFGHANISTAN, KANDAHAR	13	7373
YB,YC,YD	INDONESIA, JAKARTA	317	9554
YI	IRAQ, BAGHDAD	30	6898
YJ,FU8	NEW HEBRIDES, VILA	257	7117
YK	SYRIA, DAMASCUS	36	6668
YN	NICARAGUA, MANAGUA	152	2126
YO	ROMANIA, BUCHAREST	36	5736
YS	EL SALVADOR, SAN SALVADOR	156	1927
YU	YUGOSLAVIA, BELGRADE	38	5491
YV	VENEZUELA, CARACAS	127	2907
YVØ	AVES IS	125	2800
ZA	ALBANIA, TIRANA	41	5696
ZB2	GIBRALTAR	58	4919
ZC4,5B4	CYPRUS, NICOSIA	37	6458
ZD3	GAMBIA, BATHURST	84	5287
ZD7	ST. HELENA IS	92	7776
ZD8	ASCENSION IS	99	6376
ZD9	TRISTAN DA CUNHA AND GOUGH IS	121	7716
ZE	RHODESIA, SALISBURY	77	9174
ZF1	CAYMAN IS	135	1886
ZK1	COOK IS	234	5582
ZK1	MANIHIKI IS	242	5159
ZK2	NIUE IS	243	6671
ZL	NEW ZEALAND, AUCKLAND	238	7572
ZL	AUCKLAND & CAMPBELL IS	228	8455
ZL	CHATHAM IS	228	7528
ZL	KERMADEC IS	239	6555
ZM7	TOKELAU IS	251	5693
ZP	PARAGUAY, ASUNCION	141	5256
ZS1,2,4-6	SOUTH AFRICA, CAPE TOWN	104	9076
ZS2	PRINCE EDWARD AND MARION IS	117	10323
ZS3	S.W. AFRICA (NAMIBIA),WINDHOEK	92	8641
3A	MONACO	46	5077
3B6	AGALEGA IS	40	9939
3B8	MAURITIUS IS	49	10550
3B9	RODRIGUEZ IS	41	10738
3C	EQUATORIAL GUINEA, BATA	75	7187
3D2	FIJI IS, SUVA	251	6609
3D6	SWAZILAND, MBABANE	86	9494
3V8	TUNISIA, TUNIS	50	5517
3W8	N. VIETNAM, HANOI	333	7902
3X	REP. OF GUINEA, CONAKRY	85	5576
3Y	BOUVET IS.	133	8891
4S7	REP. OF SRI LANKA, COLOMBO	0	9193
4U	UNITED NATIONS, GENEVA	45	4951
4W	YEMEN, SANA	39	7995
4X4,4Z4	ISRAEL, TEL AVIV	37	6695
5A	LIBYAN ARAB REP., TRIPOLI	51	5832
5H1	ZANZIBAR	58	8990
5H3	TANGANYIKA, DAR-ES-SALAAM	59	9042
5N2	NIGERIA, LAGOS	77	6643
5R8	MALAGASY REP., TANANARIVE	62	10061
5T5	MAURITANIA, NOUAKCHOTT	80	5126
5U7	NIGER, NIAMEY	72	6224
5V	TOGO, LOME	78	6539
5W1	WESTERN SAMOA, APIA	248	5929
5X5	UGANDA, KAMPALA	60	8359
5Z4	KENYA, NAIROBI	56	8636
6O	SOMALI REP., MOGADISHO	46	8798
6W8	SENEGAL REP., DAKAR	83	5201
6Y5	JAMAICA, KINGSTON	131	2058
7O	SOUTH YEMEN, ADEN	39	8148
7P8	LESOTHO, MASERU	93	9387
7Q7	MALAWI, BLANTYRE	71	9289
7X	ALGERIA, ALGIERS	53	5227
8P6	BARBADOS IS, BRIDGETOWN	116	3068
8Q6,VS9	MALDIVE IS	10	9437
8R	GUYANA, GEORGETOWN	120	3463
8Z4	SAUDI ARABIA/IRAQ NEUTRAL ZONE	31	7171
9G1	GHANA, ACCRA	79	6487
9H1,5	MALTA, VALLETTA	48	5764
9H4	GOZO (MALTA)	48	5725
9I,9J	ZAMBIA, LUSAKA	76	8889
9K2	KUWAIT, AL-KUWAYT	29	7250
9L1	SIERRA LEONE, FREETOWN	86	5717
9M2	WEST MALAYSIA, KUALA LUMPUR	329	9157
9M6,8	EAST MALAYSIA, KUCHING	319	8972
9N1	NEPAL, KATMANDU	355	7729
9Q5	REP. OF ZAIRE, KINSHASA	76	7721
9U5	BURUNDI, BUJUMBURA	65	8372
9V1	SINGAPORE	326	9226
9X	RWANDA, KIGALI	63	8369
9Y4	TRINIDAD AND TOBAGO IS	120	3075

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
AP	Pakistan					
A2C	Botswana					
A35	Tonga					
A4X	Sultanate of Oman					
A51	Bhutan					
A6X	United Arab Emirates					
A7X	Qatar					
A9X	Bahrain					
BV	Taiwan					
BY	China					
CE	Chile					
CEØA	Easter Island					
CEØX	San Felix Island					
CEØZ	Juan Fernandez Is					
CM,CO	Cuba					
CN	Morocco					
CP	Bolivia					
CR3	Guinea Bissau					
CR9	Macao					
CT1	Portugal					
CT2	Azores Is					
CT3	Madeira Is					
CX	Uruguay					
C21	Rep.of Nauru					
C31	Andorra					
C5A	Gambia					
C6A	Bahama Is					
C9M	Mozambique					
DA-DL	West Germany					
DM	East Germany					
DU	Philippines					
D2A	Angola					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
D4	Rep.of Cape Verde					
D6	State of Comoro					
EA	Spain					
EA6	Balearic Is					
EA8	Canary Is					
EA9	Ceuta Y Melilla & Spanish Sahara					
EI	Ireland					
EL,5L	Liberia					
EP	Iran					
ET3	Ethiopia					
F	France					
FB8W	Crozet Is					
FB8X	Kerguelen Is					
FB8Y	Antartica					
FB8Z	Amsterdan & St Paul					
FC	Corsica					
FG7	Guadeloupe					
FH8	Mayotte					
FK8	New Caledonia					
FM7	Martinique					
FO8	French Polynesia					
FO8	Clipperton Is					
FP8	St.Pierre & Miquelon					
FR7	Glorioso					
FR7	Juan De Nova					
FR7	Reunion					
FR7	Tromelin Is					
FS7	St.Martin Is					
FW8	Wallis & Futuna Is					
FY7	French Guiana					
G	England					
GD	Isle of Man					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
GI	Northern Ireland					
GJ	Jersey					
GM	Scotland					
GU	Bailiwick of Guernsey					
GW	Wales					
HA,HG	Hungary					
HB	Switzerland					
HBØ	Liechtenstein					
HC	Ecuador					
HC8	Galapagos Is					
HH	Haiti					
HI	Dominican Rep.					
HK	Colombia					
HKØ	Bajo Nuevo					
HKØ	Malpelo					
HKØ	S Andres & Providencia					
HKØ	Serrana Bank					
HKØ	Roncador Cay					
HM,HL9	Korea					
HP	Panama					
HR	Honduras					
HS	Thailand					
HV	Vatican City					
HZ,7Z	Saudi Arabia					
H4	Solomon Is					
I,IW	Italy					
IA	Tuscan Archipelago					
IC	Capri & Ischia Is					
IG9	Lampedusa Is					
IH	Pantelleria Is					
IM	Maddalena Is					
IS	Sardinia					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
IT	Sicily					
JA, JE-JJ,JR	Japan					
JD	Ogasawara, Minami-Tori-Shima Is					
JR6	Okinawa(Ryukyu Is)					
JT1	Mongolia					
JW	Svalbard Is					
JX	Jan Mayen Is					
JY	Jordan					
J2	Rep of Djibouti					
J3	Grenada & Dependencies					
K,N,W	United States					
KA	US Pers. in Japan					
KB6	Baker,Canton,Enderbury, Howland & Phoenix Is					
KC4	Navassa Is					
KC6	Caroline Is					
KG4	Guantanamo Bay					
KG6	Mariana Is					
KH6	Hawaii & Kure Is					
KJ6	Johnston Is					
KL7	Alaska					
KM6	Midway Is					
KP4	Puerto Rico					
KP6	Jarvis & Palmyra Is					
KS6	American Samoa					
KV4	Virgin Is					
KW6	Wake Is					
KX6	Marshall Is					
KZ5	Canal Zone					
LA-LJ	Norway					
LU	Argentina					
LX	Luxembourg					
LZ	Bulgaria					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
M1	San Marino					
OA	Peru					
OD5	Lebanon					
OE	Austria					
OH	Finland					
OHØ	Aland Is					
OJØ,OHØM	Market Reef					
OK,OL	Czechoslovakia					
ON	Belgium					
OX	Greenland					
OY	Faeroes Is					
OZ	Denmark					
PA-PI	Netherlands					
PJ	Netherlands Antilles					
PJ2,9	Curacao					
PJ3,9	Aruba					
PJ4,9	Bonaire					
PJ5,8	St.Eustatius					
PJ6,8	Saba Is					
PJ7,8	Sint Maarten					
PP-PY	Brazil					
PYØ	Fernando De Noronha					
PYØ	St Peter & St Paul's Rocks					
PYØ	Trinidade & Martim Vaz Is					
PZ	Surinam					
P29	Papua New Guinea					
SJ-SM	Sweden					
SP	Poland					
ST	Sudan					
SU	Egypt					
SV	Crete,Greece					
SV5	Dodecanese Is					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
S2,S3	Bangladesh					
S7	Seychelles Is					
S8	Transkei					
S9	Sao Tome & Principe Is					
TA,TC	Turkey					
TF	Iceland					
TG	Guatemala					
TI	Costa Rica					
TI9	Cocos Is					
TJ	Cameroon					
TL8	Central African Rep					
TN8	Republic of Congo					
TR8	Gabon Republic					
TT8	Republic of Chad					
TU2	Ivory Coast					
TY	Peoples Rep.of Benin					
TZ	Mali Republic					
UA1-4,6	European Russian S.F.S.R.					
UA9,Ø	Asiatic Russian S.F.S.R.					
UA1	Franz Josef Land					
UA2	Kaliningradsk					
UB5	Ukrainian S.S.R.					
UC2	White Russian S.S.R.					
UD6	Azerbaidzhan S.S.R.					
UF6	Georgian S.S.R.					
UG6	Armenian S.S.R.					
UH8	Turkmen S.S.R.					
UI8	Uzbek S.S.R.					
UJ8	Tadzhik S.S.R.					
UL7	Kazakh S.S.R.					
UM8	Kirghiz S.S.R.					
UN1	Karelo-Finnish S.S.R.					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
UO5	Moldavian S.S.R.					
UP2	Lithuanian S.S.R.					
UQ2	Latvian S.S.R.					
UR2	Estonian S.S.R.					
VE	Canada					
VK	Australia					
VK2	Lord Howe Is					
VK9N	Norfolk Is					
VK9X	Christmas Is					
VK9Y	Cocos Is					
VK9Z	Willis Is					
VO1	Newfoundland					
VO2	Labrador					
VP1	Belize					
VP2A	Antigua,Barbuda					
VP2D	Dominica					
VP2E	Anguilla					
VP2K	St Kitts,Nevis					
VP2L	St Lucia					
VP2M	Montserrat					
VP2S	St Vincent & Dependencies					
VP2V	British Virgin Is					
VP5	Turks & Caicos Is					
VP8,LU-Z	Falkland					
VP8,LU-Z	S.Georgia					
VP8,LU-Z	S.Orkney					
VP8,LU-Z	S.Sandwich					
VP8,LU-Z	Graham Is					
VP8,LU-Z CE9AN-AZ	S.Shetland Is					
VP9	Bermuda Is					
VQ9	Chagos					
VR1	British Phoenix, Gilbert & Ocean Is					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
VR3	Northern Line Is					
VR6	Pitcairn Is					
VR7	Central & Southern Line Is					
VR8	Tuvalu Is					
VS5	Brunei					
VS6	Hong Kong					
VU2	India					
VU7	Andaman & Nicobar Is					
VU7	Laccadive Is					
XE,XF	Mexico					
XF4	Revilla Gigedo Is					
XT2	Voltaic Republic					
XU	Cambodia/Khmer Rep.					
XV5	Vietnam					
XW8	Laos					
XZ	Burma					
YA	Afghanistan					
YB-YD	Indonesia,Timor Is					
YI	Iraq					
YJ	New Hebrides					
YK	Syria					
YN	Nicaragua					
YO	Romania					
YS	El Salvador					
YU	Yugoslavia					
YV	Venezuela					
YVØ	Aves Is					
ZA	Albania					
ZB2	Gibraltar					
ZD7	St Helena Is					
ZD8	Ascension Is					
ZD9	Tristan Da Cunha & Gough Is					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
ZE	Rhodesia					
ZF1	Cayman Is					
ZK1	Cook & Manihiki Is					
ZK2	Niue Is					
ZL	New Zealand					
ZL	Auckland & Campbell					
ZL	Chatham & Kermadec					
ZM7	Tokelau Is					
ZP	Paraguay					
ZR, ZS1,2,4-6	Rep.of South Africa					
ZS2	Prince Edward & Marion Is					
ZR,ZS3	Southwest Africa					
3A	Monaco					
3B6	Agalega Is					
3B7	St Brandon Is					
3B8	Mauritius Is					
3B9	Rodriguez Is					
3C	Equatorial Guinea					
3D2	Fiji Is					
3D6	Swaziland					
3V8	Tunisia					
3X	Rep.of Guinea					
3Y	Bouvet Is					
4S7	Sri Lanka					
4U	United Nations,Geneva					
4W	Yemen					
4X4,4Z4	Israel					
5A	Libyan Arab Republic					
5B4,ZC4	Cyprus					
5H1	Zanzibar,Tanzania					
5H3	Tanzania					
5L	Liberia					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
5N2	Nigeria					
5R8	Malagasy Rep.					
5T5	Mauritania					
5U7	Niger					
5V	Togo					
5W1	Western Samoa					
5X5	Uganda					
5Z4	Kenya					
6O	Somali Republic					
6W8	Senegal Republic					
6Y5	Jamaica					
7J	Okino-Tori-Shima					
7O	South Yemen & Kamaran Is					
7P8	Lesotho					
7Q7	Malawi					
7X	Algeria					
7Z	Saudi Arabia					
8P6	Barbados Is					
8Q6	Maldive Is					
8R	Guyana					
8Z4	Saudi Arabia/ Iraq Neutral Zone					
9G1	Ghana					
9H1,5	Malta					
9H4	Gozo (Malta)					
9I,9J	Zambia					
9K2	Kuwait					
9L1	Sierra Leone					
9M2	West Malaysia					
9M6	Sabah					
9M8	Sarawak					
9N1	Nepal					
9Q5	Republic of Zaire					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Received
9U5	Burundi					
9V1	Rep. of Singapore					
9X	Rwanda					
9Y4	Trinidad & Tobago Is					

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